FIG.1

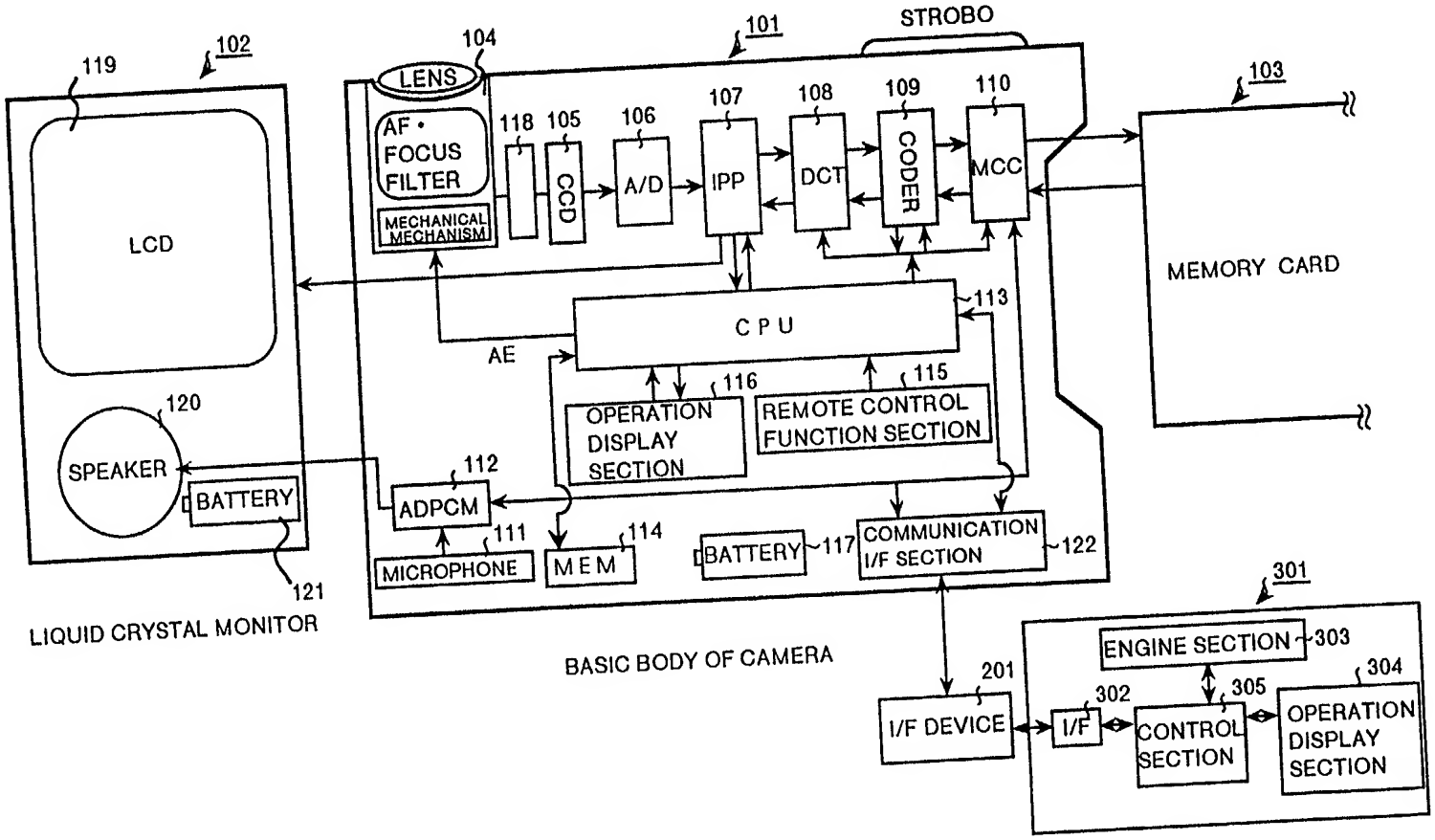

LENS
AF • FOCUS FILTER
MECHANICAL MECHANISM
CCD
A/D
IPP
DCT
CODER
MCC
STROBO
LCD
MEMORY CARD
CPU
AE
OPERATION DISPLAY SECTION
REMOTE CONTROL FUNCTION SECTION
SPEAKER
BATTERY
ADPCM
MICROPHONE
MEM
BATTERY
COMMUNICATION I/F SECTION
LIQUID CRYSTAL MONITOR
BASIC BODY OF CAMERA
I/F DEVICE
I/F
CONTROL SECTION
ENGINE SECTION
OPERATION DISPLAY SECTION
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
201
301
302
303
304
305

FIG.2A

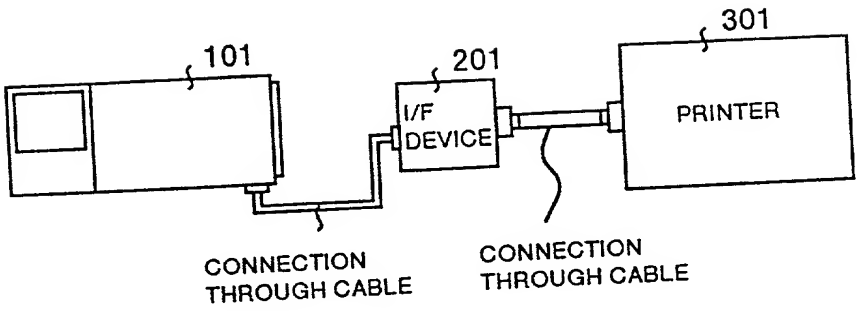


FIG.2B

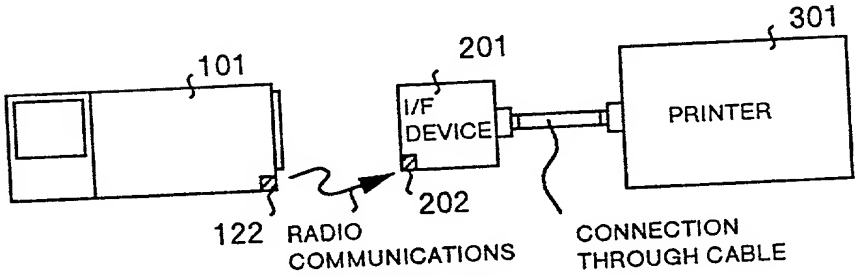


FIG.2C

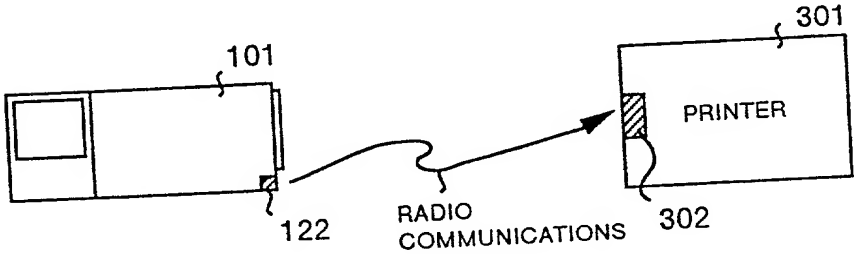


FIG.3

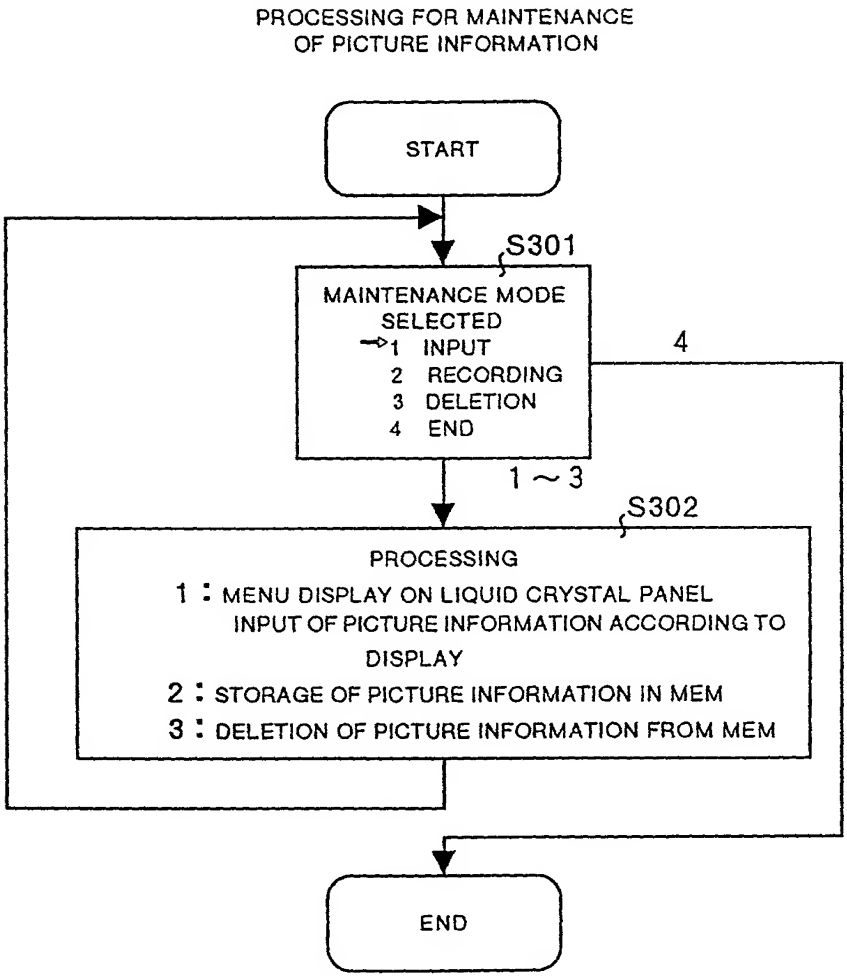

PROCESSING FOR MAINTENANCE OF PICTURE INFORMATION
START
S301
MAINTENANCE MODE SELECTED
1 INPUT
2 RECORDING
3 DELETION
4 END
4
1 ~ 3
S302
PROCESSING
1 : MENU DISPLAY ON LIQUID CRYSTAL PANEL
INPUT OF PICTURE INFORMATION ACCORDING TO DISPLAY
2 : STORAGE OF PICTURE INFORMATION IN MEM
3 : DELETION OF PICTURE INFORMATION FROM MEM
END

FIG.4A

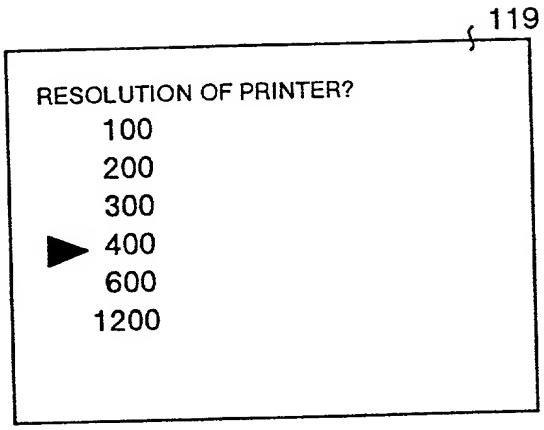

119
RESOLUTION OF PRINTER?
100
200
300
400
600
1200

FIG.4B

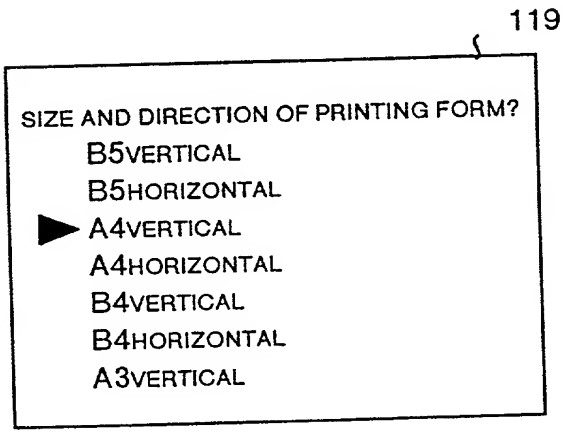
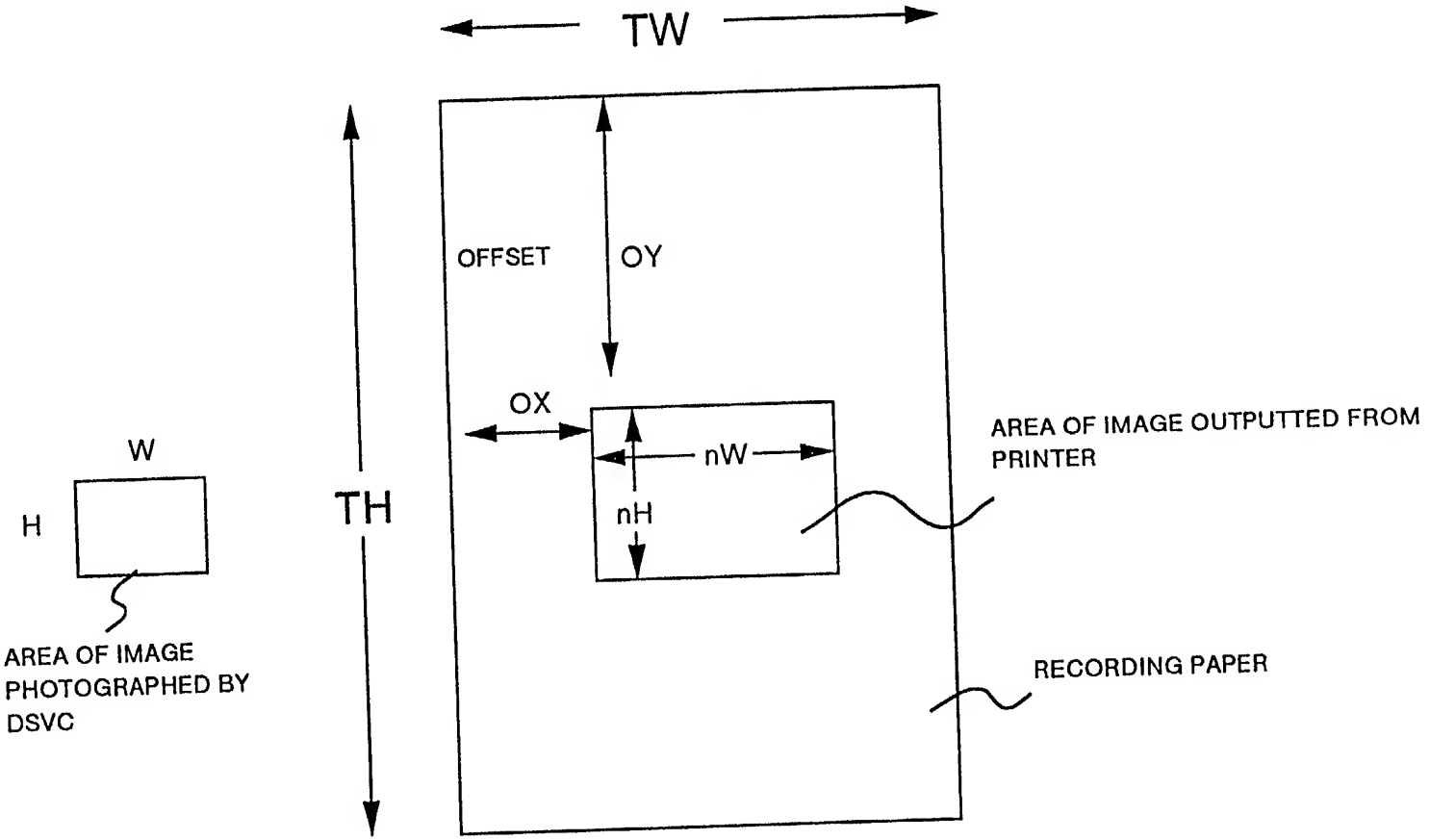

119
SIZE AND DIRECTION OF PRINTING FORM?
B5VERTICAL
B5HORIZONTAL
A4VERTICAL
A4HORIZONTAL
B4VERTICAL
B4HORIZONTAL
A3VERTICAL

FIG.5



n INDICATES MAGNIFICATION.

FIG.6

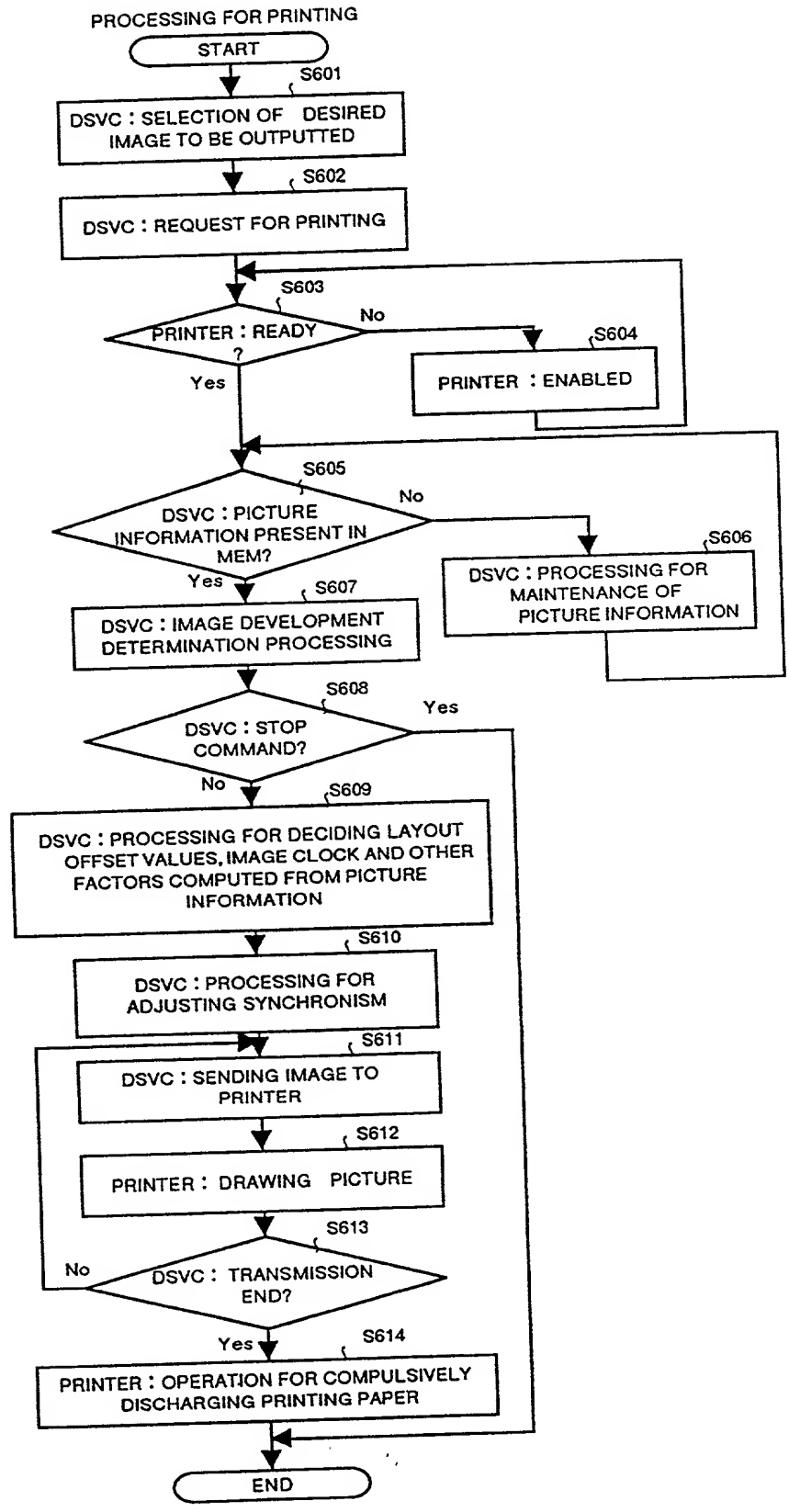

PROCESSING FOR PRINTING
START
S601
DSVC : SELECTION OF DESIRED IMAGE TO BE OUTPUTTED
S602
DSVC : REQUEST FOR PRINTING
S603
PRINTER : READY ?
No
S604
PRINTER : ENABLED
Yes
S605
DSVC : PICTURE INFORMATION PRESENT IN MEM?
No
S606
DSVC : PROCESSING FOR MAINTENANCE OF PICTURE INFORMATION
Yes
S607
DSVC : IMAGE DEVELOPMENT DETERMINATION PROCESSING
S608
DSVC : STOP COMMAND?
Yes
No
S609
DSVC : PROCESSING FOR DECIDING LAYOUT OFFSET VALUES, IMAGE CLOCK AND OTHER FACTORS COMPUTED FROM PICTURE INFORMATION
S610
DSVC : PROCESSING FOR ADJUSTING SYNCHRONISM
S611
DSVC : SENDING IMAGE TO PRINTER
S612
PRINTER : DRAWING PICTURE
S613
DSVC : TRANSMISSION END?
No
Yes
S614
PRINTER : OPERATION FOR COMPULSIVELY DISCHARGING PRINTING PAPER
END

FIG.7

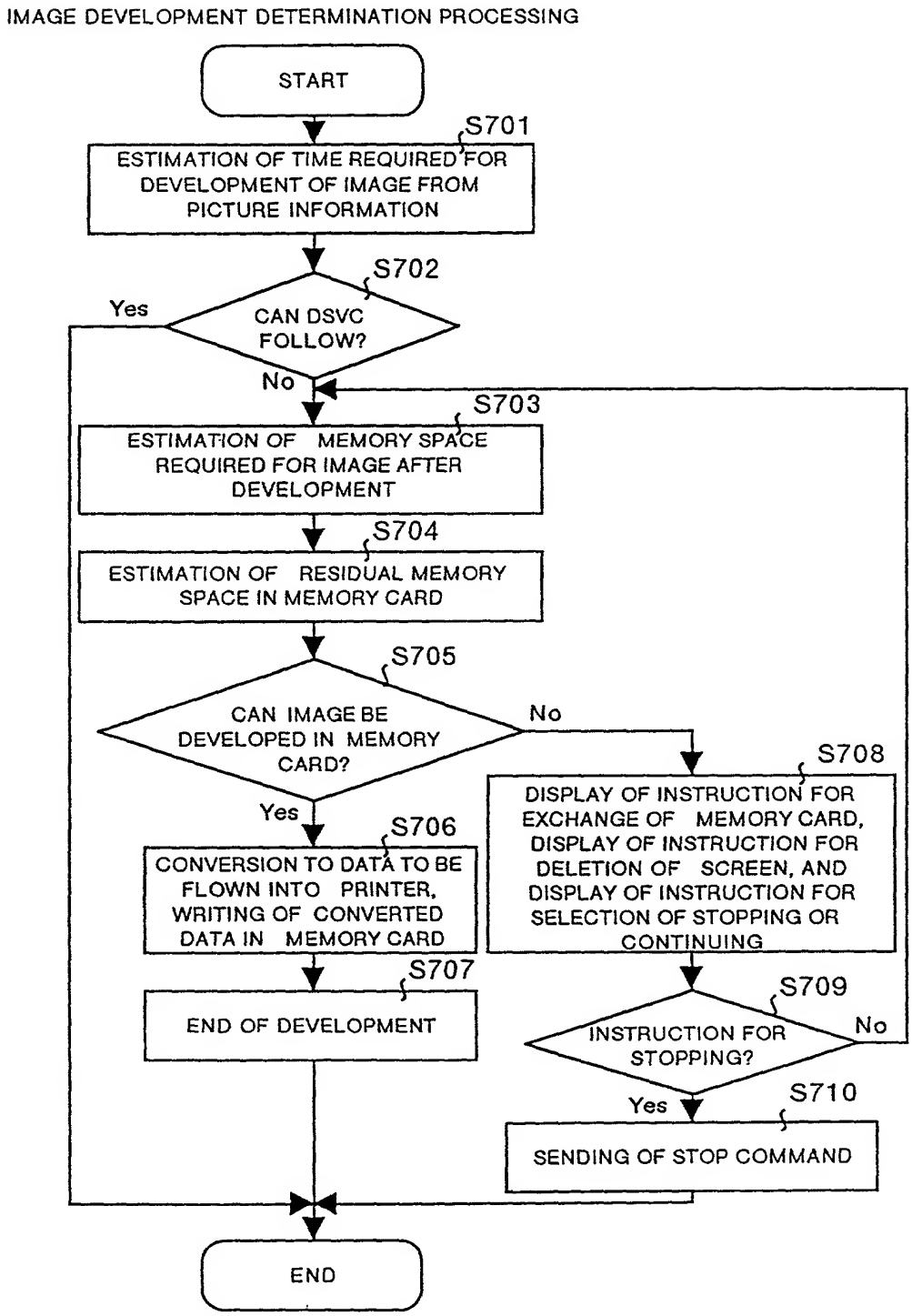


IMAGE DEVELOPMENT DETERMINATION PROCESSING
START
S701
ESTIMATION OF TIME REQUIRED FOR DEVELOPMENT OF IMAGE FROM PICTURE INFORMATION
S702
CAN DSVC FOLLOW?
Yes
No
S703
ESTIMATION OF MEMORY SPACE REQUIRED FOR IMAGE AFTER DEVELOPMENT
S704
ESTIMATION OF RESIDUAL MEMORY SPACE IN MEMORY CARD
S705
CAN IMAGE BE DEVELOPED IN MEMORY CARD?
No
Yes
S706
CONVERSION TO DATA TO BE FLOWN INTO PRINTER, WRITING OF CONVERTED DATA IN MEMORY CARD
S707
END OF DEVELOPMENT
S708
DISPLAY OF INSTRUCTION FOR EXCHANGE OF MEMORY CARD, DISPLAY OF INSTRUCTION FOR DELETION OF SCREEN, AND DISPLAY OF INSTRUCTION FOR SELECTION OF STOPPING OR CONTINUING
S709
INSTRUCTION FOR STOPPING?
No
Yes
S710
SENDING OF STOP COMMAND
END

FIG.8

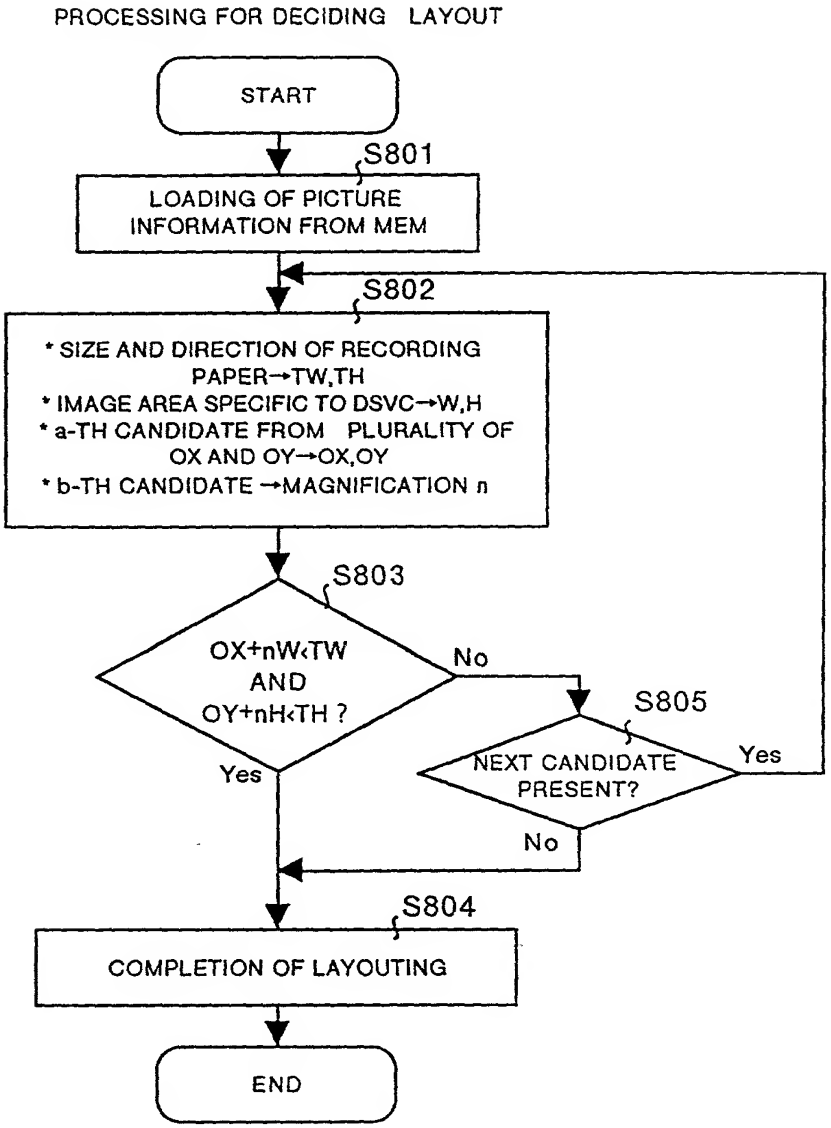

PROCESSING FOR DECIDING LAYOUT
START
S801
LOADING OF PICTURE INFORMATION FROM MEM
S802
* SIZE AND DIRECTION OF RECORDING PAPER→TW,TH
* IMAGE AREA SPECIFIC TO DSVC→W,H
* a-TH CANDIDATE FROM PLURALITY OF OX AND OY→OX,OY
* b-TH CANDIDATE →MAGNIFICATION n
S803
OX+nW<TW AND OY+nH<TH ?
No
Yes
S805
NEXT CANDIDATE PRESENT?
Yes
No
S804
COMPLETION OF LAYOUTING
END

FIG.9

PROCESSING FOR SETTING PICTURE INFORMATION

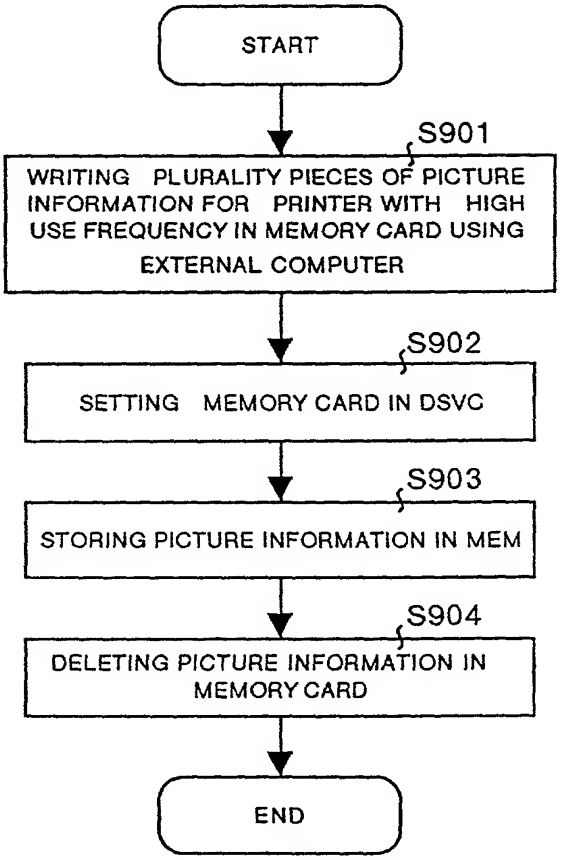


FIG.10

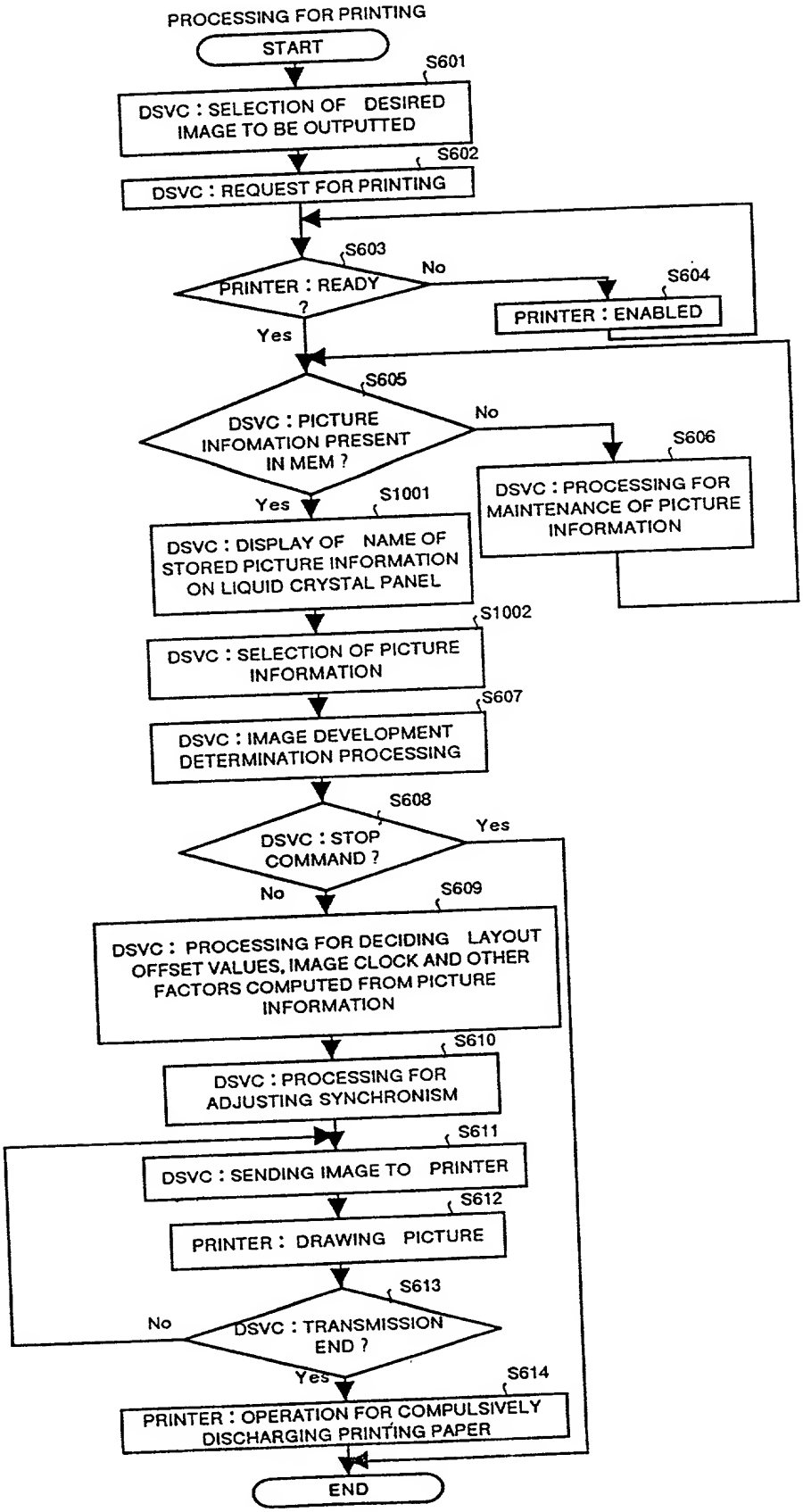

PROCESSING FOR PRINTING
START
S601
DSVC : SELECTION OF DESIRED IMAGE TO BE OUTPUTTED
S602
DSVC : REQUEST FOR PRINTING
S603
PRINTER : READY ?
No
S604
PRINTER : ENABLED
Yes
S605
DSVC : PICTURE INFOMATION PRESENT IN MEM ?
No
S606
DSVC : PROCESSING FOR MAINTENANCE OF PICTURE INFORMATION
Yes
S1001
DSVC : DISPLAY OF NAME OF STORED PICTURE INFORMATION ON LIQUID CRYSTAL PANEL
S1002
DSVC : SELECTION OF PICTURE INFORMATION
S607
DSVC : IMAGE DEVELOPMENT DETERMINATION PROCESSING
S608
DSVC : STOP COMMAND ?
Yes
No
S609
DSVC : PROCESSING FOR DECIDING LAYOUT OFFSET VALUES, IMAGE CLOCK AND OTHER FACTORS COMPUTED FROM PICTURE INFORMATION
S610
DSVC : PROCESSING FOR ADJUSTING SYNCHRONISM
S611
DSVC : SENDING IMAGE TO PRINTER
S612
PRINTER : DRAWING PICTURE
S613
DSVC : TRANSMISSION END ?
No
Yes
S614
PRINTER : OPERATION FOR COMPULSIVELY DISCHARGING PRINTING PAPER
END

FIG.11

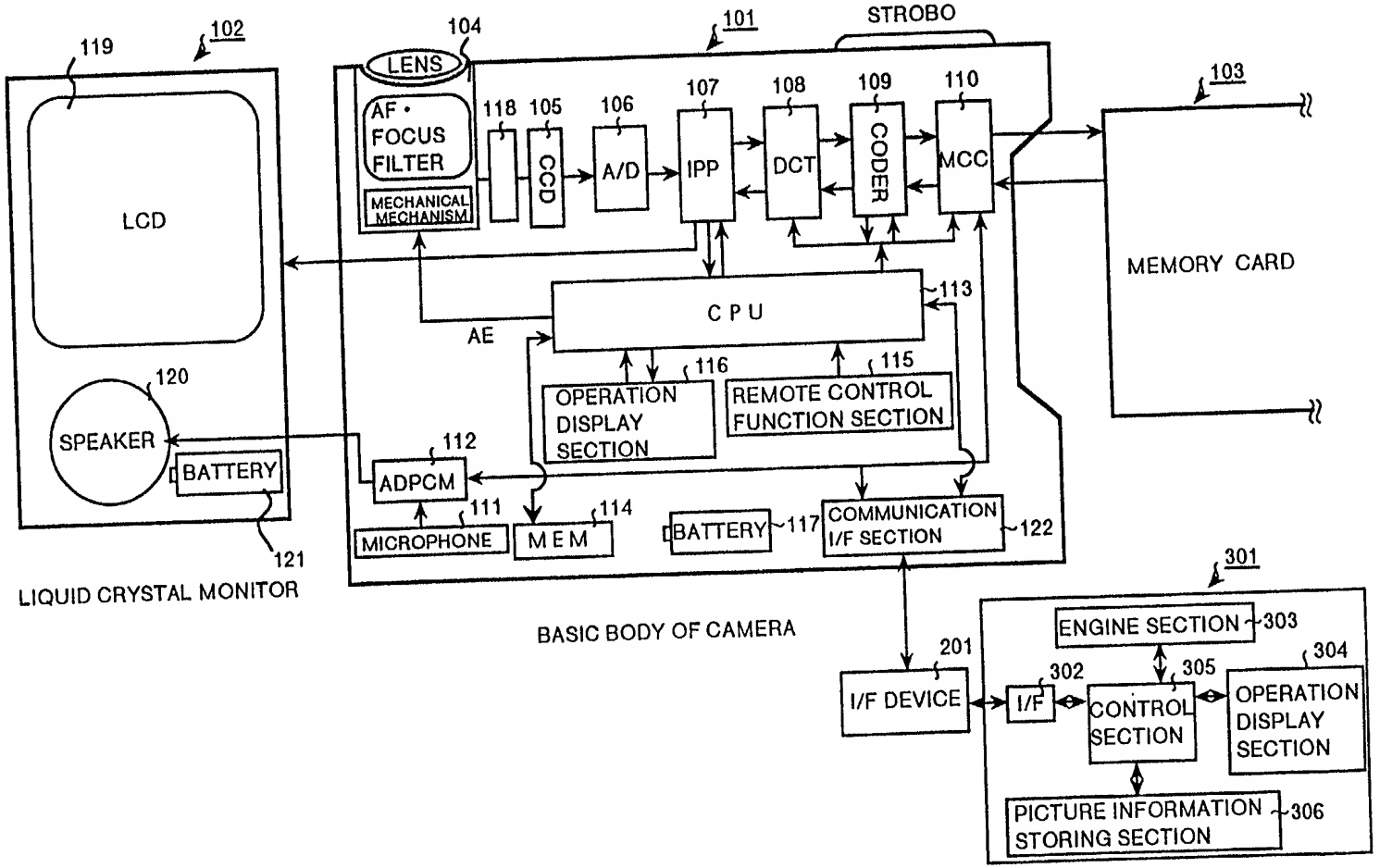

119
102
LCD
120
SPEAKER
BATTERY
121
LIQUID CRYSTAL MONITOR
104
LENS
AF • FOCUS FILTER
MECHANICAL MECHANISM
101
STROBO
118
105
CCD
106
A/D
107
IPP
108
DCT
109
CODER
110
MCC
103
MEMORY CARD
113
CPU
AE
116
OPERATION DISPLAY SECTION
115
REMOTE CONTROL FUNCTION SECTION
112
ADPCM
111
MICROPHONE
114
MEM
BATTERY
117
COMMUNICATION I/F SECTION
122
BASIC BODY OF CAMERA
301
ENGINE SECTION
303
304
201
I/F DEVICE
302
I/F
305
CONTROL SECTION
OPERATION DISPLAY SECTION
PICTURE INFORMATION STORING SECTION
306

FIG.12

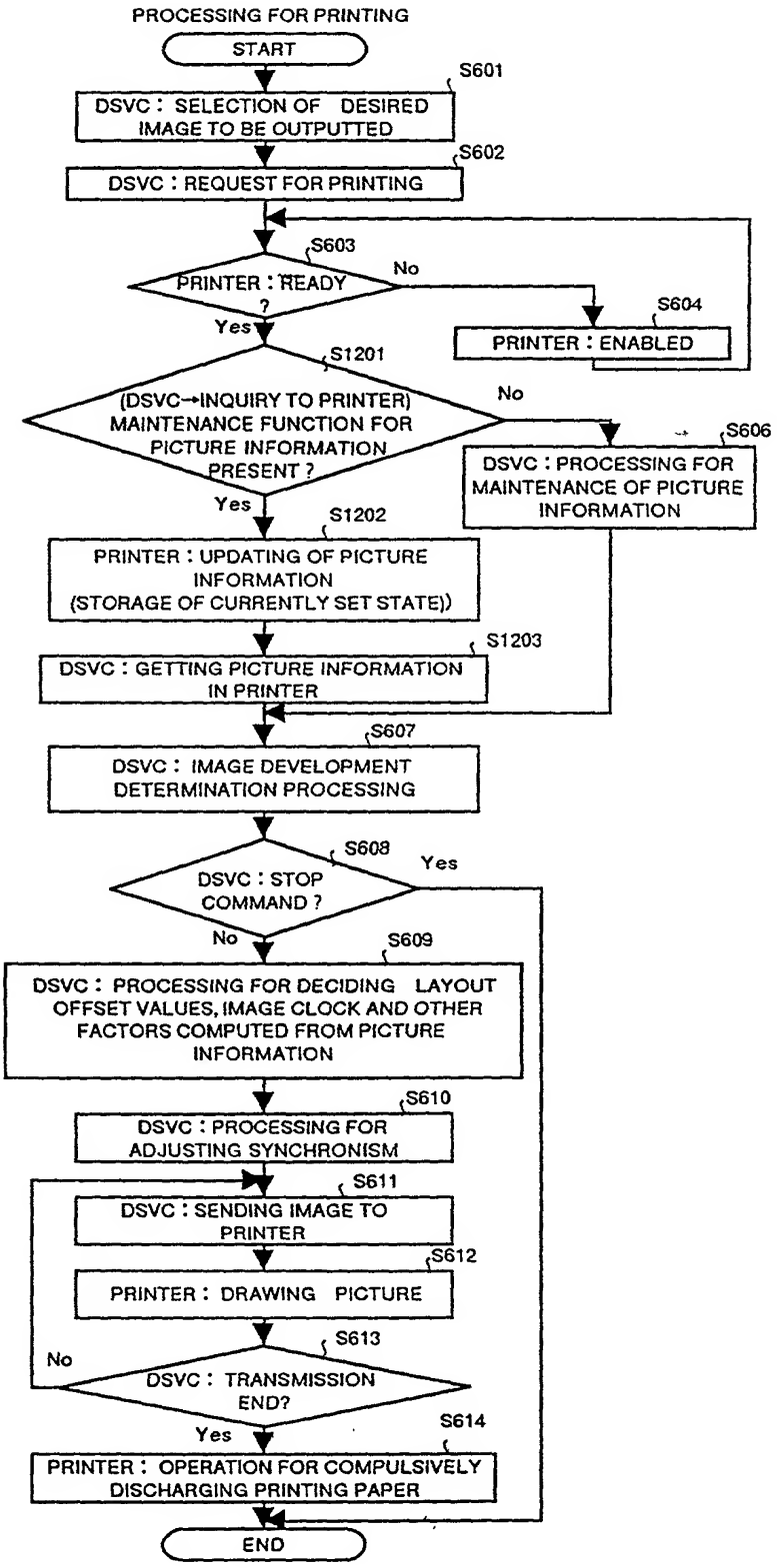

PROCESSING FOR PRINTING
START
S601
DSVC : SELECTION OF DESIRED IMAGE TO BE OUTPUTTED
S602
DSVC : REQUEST FOR PRINTING
S603
PRINTER : READY ?
No
S604
PRINTER : ENABLED
Yes
S1201
(DSVC→INQUIRY TO PRINTER) MAINTENANCE FUNCTION FOR PICTURE INFORMATION PRESENT ?
No
S606
DSVC : PROCESSING FOR MAINTENANCE OF PICTURE INFORMATION
Yes
S1202
PRINTER : UPDATING OF PICTURE INFORMATION (STORAGE OF CURRENTLY SET STATE))
S1203
DSVC : GETTING PICTURE INFORMATION IN PRINTER
S607
DSVC : IMAGE DEVELOPMENT DETERMINATION PROCESSING
S608
DSVC : STOP COMMAND ?
Yes
No
S609
DSVC : PROCESSING FOR DECIDING LAYOUT OFFSET VALUES, IMAGE CLOCK AND OTHER FACTORS COMPUTED FROM PICTURE INFORMATION
S610
DSVC : PROCESSING FOR ADJUSTING SYNCHRONISM
S611
DSVC : SENDING IMAGE TO PRINTER
S612
PRINTER : DRAWING PICTURE
S613
No
DSVC : TRANSMISSION END?
Yes
S614
PRINTER : OPERATION FOR COMPULSIVELY DISCHARGING PRINTING PAPER
END

FIG.13

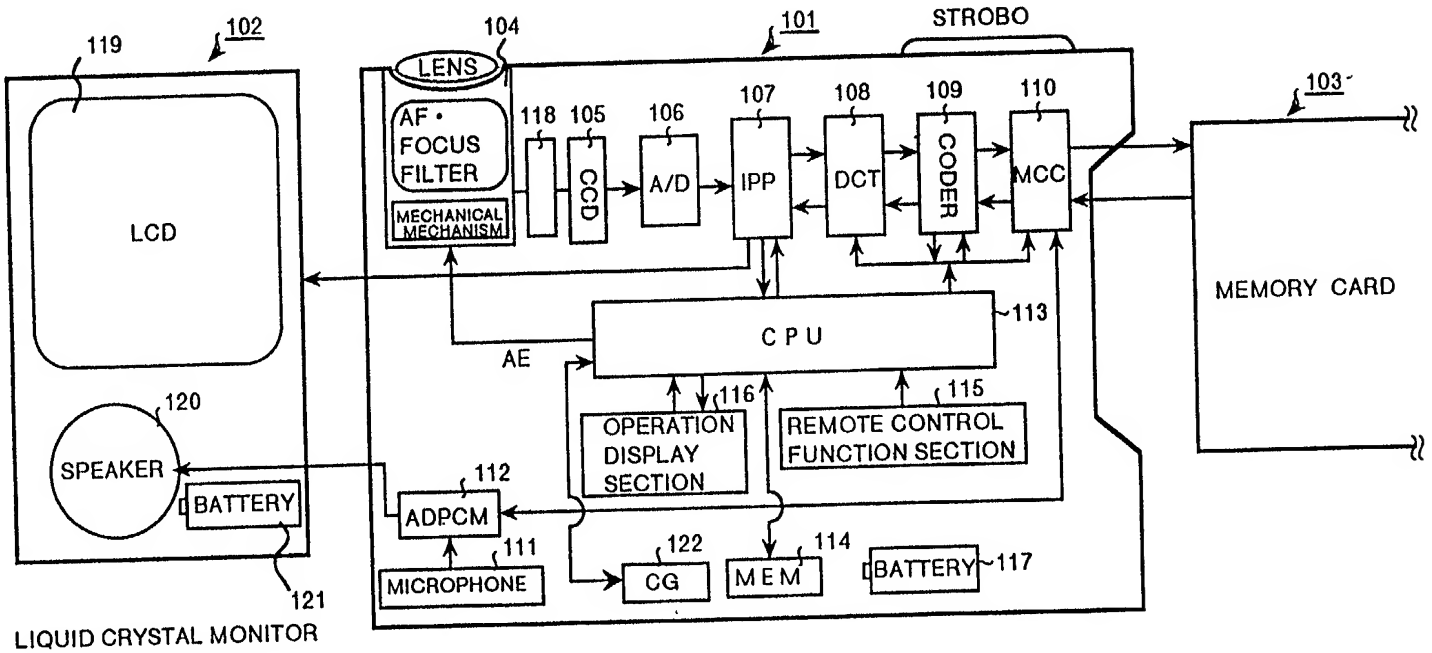

119
102
104
101
STROBO
LENS
AF • FOCUS FILTER
MECHANICAL MECHANISM
118
105
106
107
108
109
110
103
CCD
A/D
IPP
DCT
CODER
MCC
LCD
MEMORY CARD
CPU
113
AE
116
115
OPERATION DISPLAY SECTION
REMOTE CONTROL FUNCTION SECTION
120
SPEAKER
BATTERY
112
ADPCM
111
MICROPHONE
122
CG
MEM
114
BATTERY
117
121
LIQUID CRYSTAL MONITOR
BASIC BODY OF CAMERA

FIG.14A

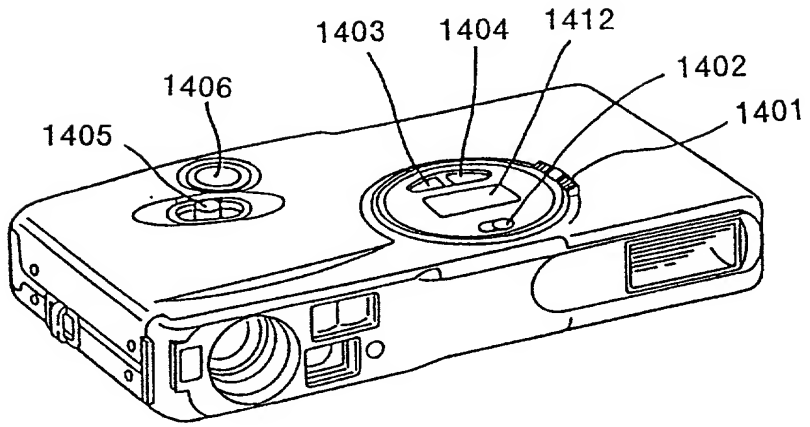


FIG.14B

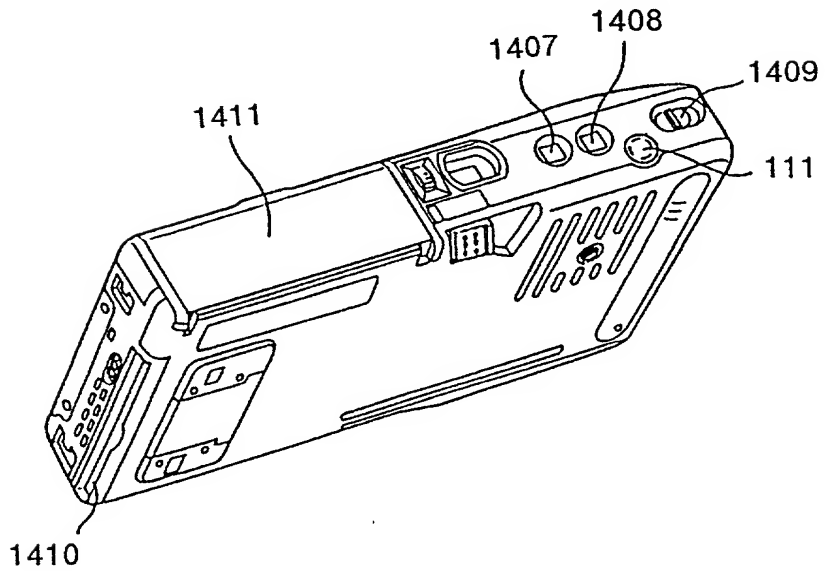


FIG.15

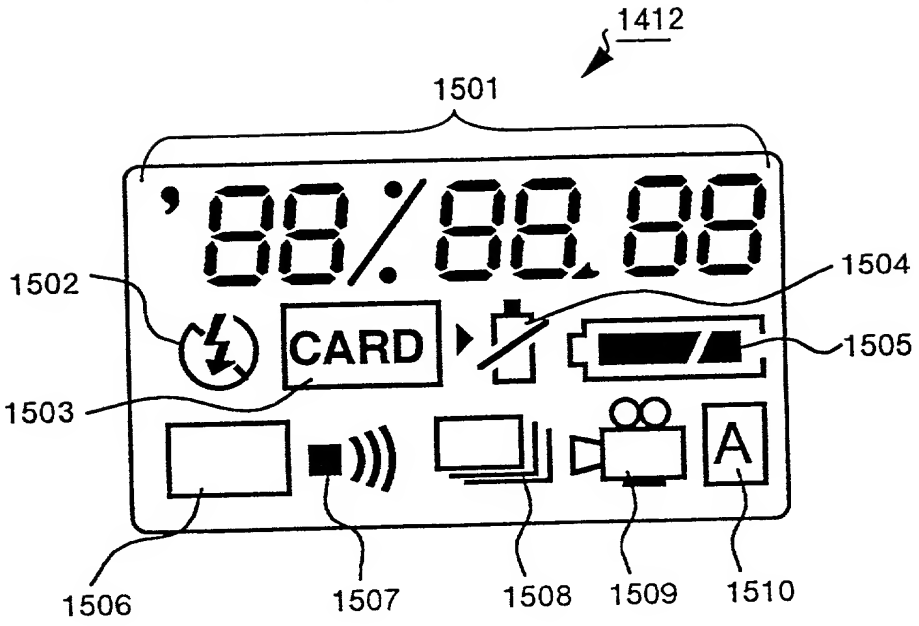

1412
1501
'88%88.88
1502
1504
CARD
1505
1503
A
1506
1507
1508
1509
1510

FIG.16

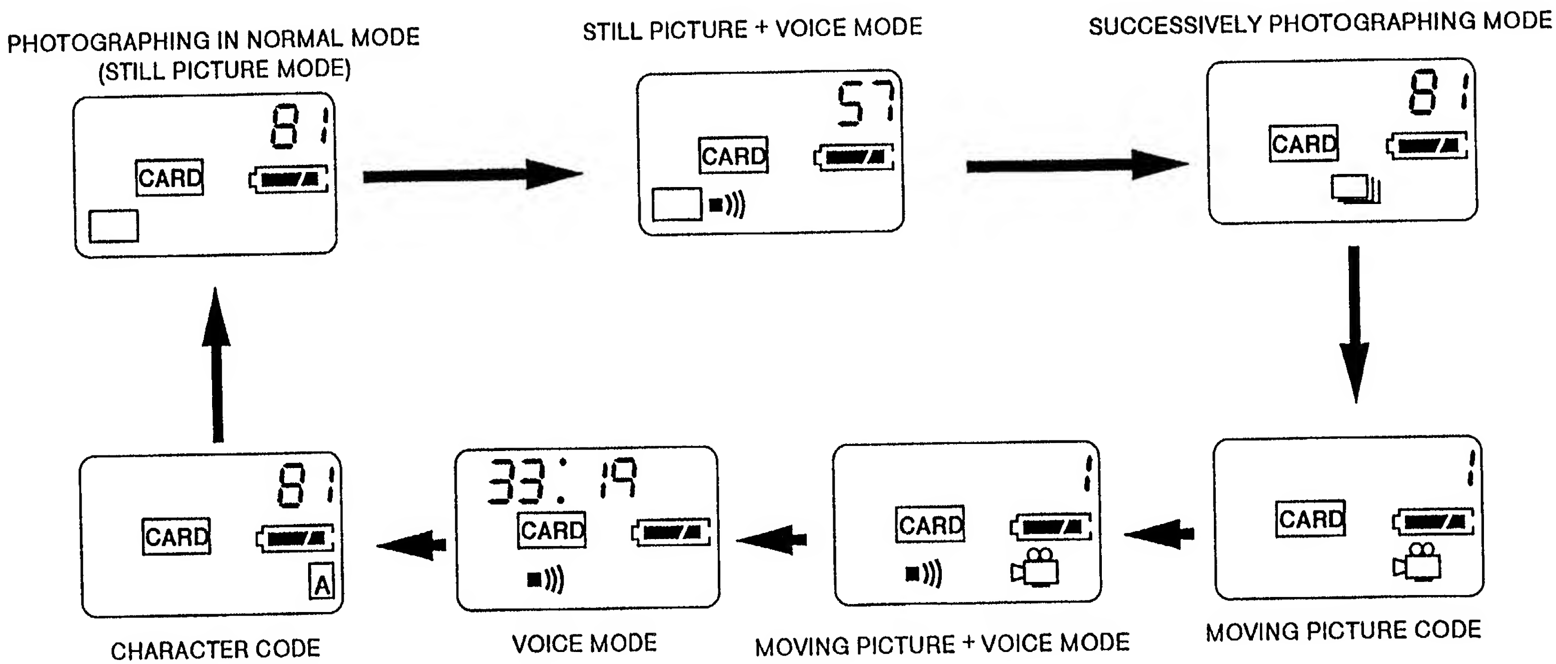

PHOTOGRAPHING IN NORMAL MODE
(STILL PICTURE MODE)
STILL PICTURE + VOICE MODE
SUCCESSIVELY PHOTOGRAPHING MODE
MOVING PICTURE CODE
MOVING PICTURE + VOICE MODE
VOICE MODE
CHARACTER CODE
CARD
81
57
33:19
A

FIG.17

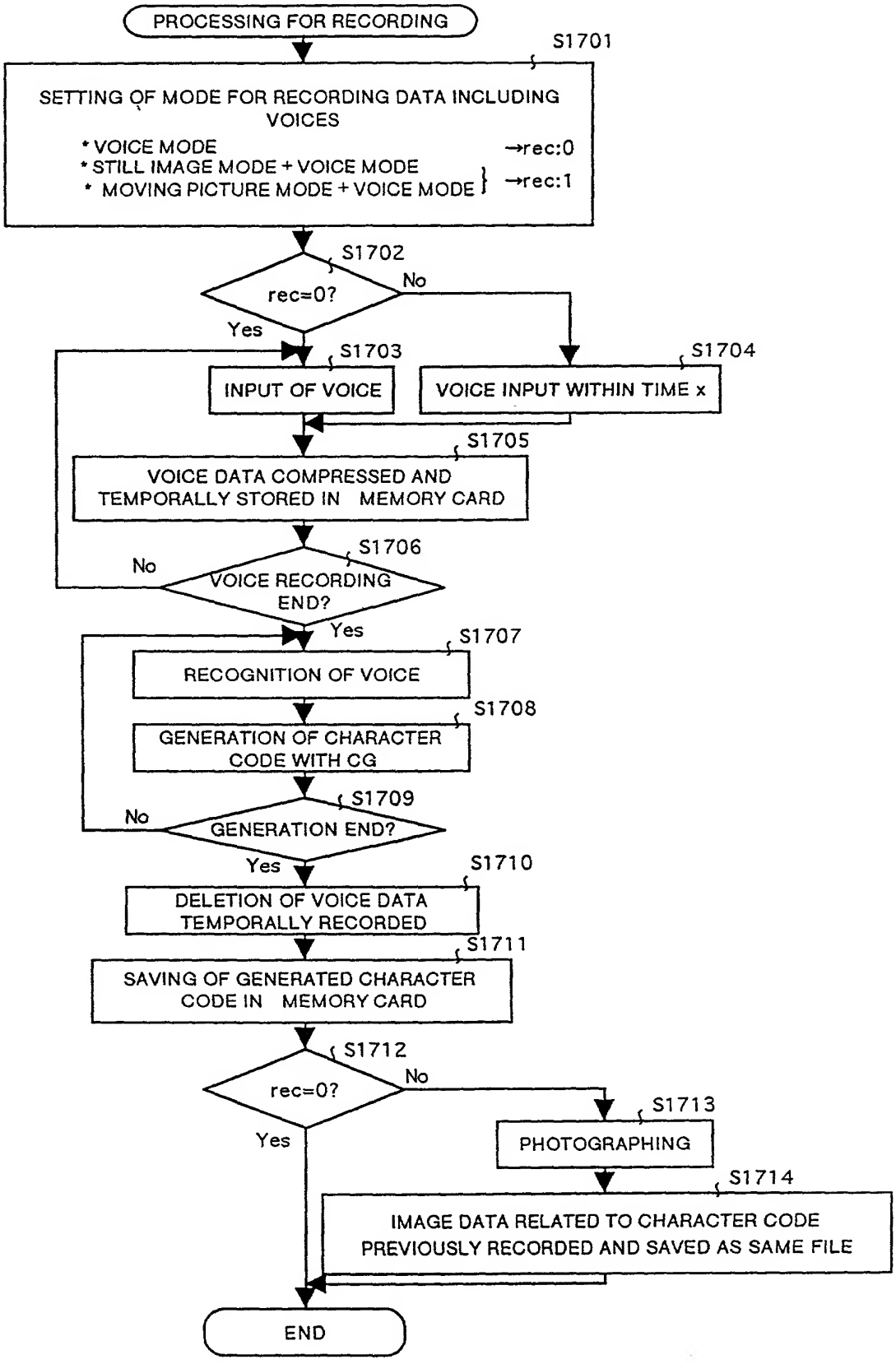

PROCESSING FOR RECORDING
S1701
SETTING OF MODE FOR RECORDING DATA INCLUDING VOICES
* VOICE MODE →rec:0
* STILL IMAGE MODE + VOICE MODE →rec:1
* MOVING PICTURE MODE + VOICE MODE
S1702
rec=0?
No
Yes
S1703
INPUT OF VOICE
S1704
VOICE INPUT WITHIN TIME x
S1705
VOICE DATA COMPRESSED AND TEMPORALLY STORED IN MEMORY CARD
S1706
No
VOICE RECORDING END?
Yes
S1707
RECOGNITION OF VOICE
S1708
GENERATION OF CHARACTER CODE WITH CG
S1709
No
GENERATION END?
Yes
S1710
DELETION OF VOICE DATA TEMPORALLY RECORDED
S1711
SAVING OF GENERATED CHARACTER CODE IN MEMORY CARD
S1712
rec=0?
No
Yes
S1713
PHOTOGRAPHING
S1714
IMAGE DATA RELATED TO CHARACTER CODE PREVIOUSLY RECORDED AND SAVED AS SAME FILE
END

FIG.18

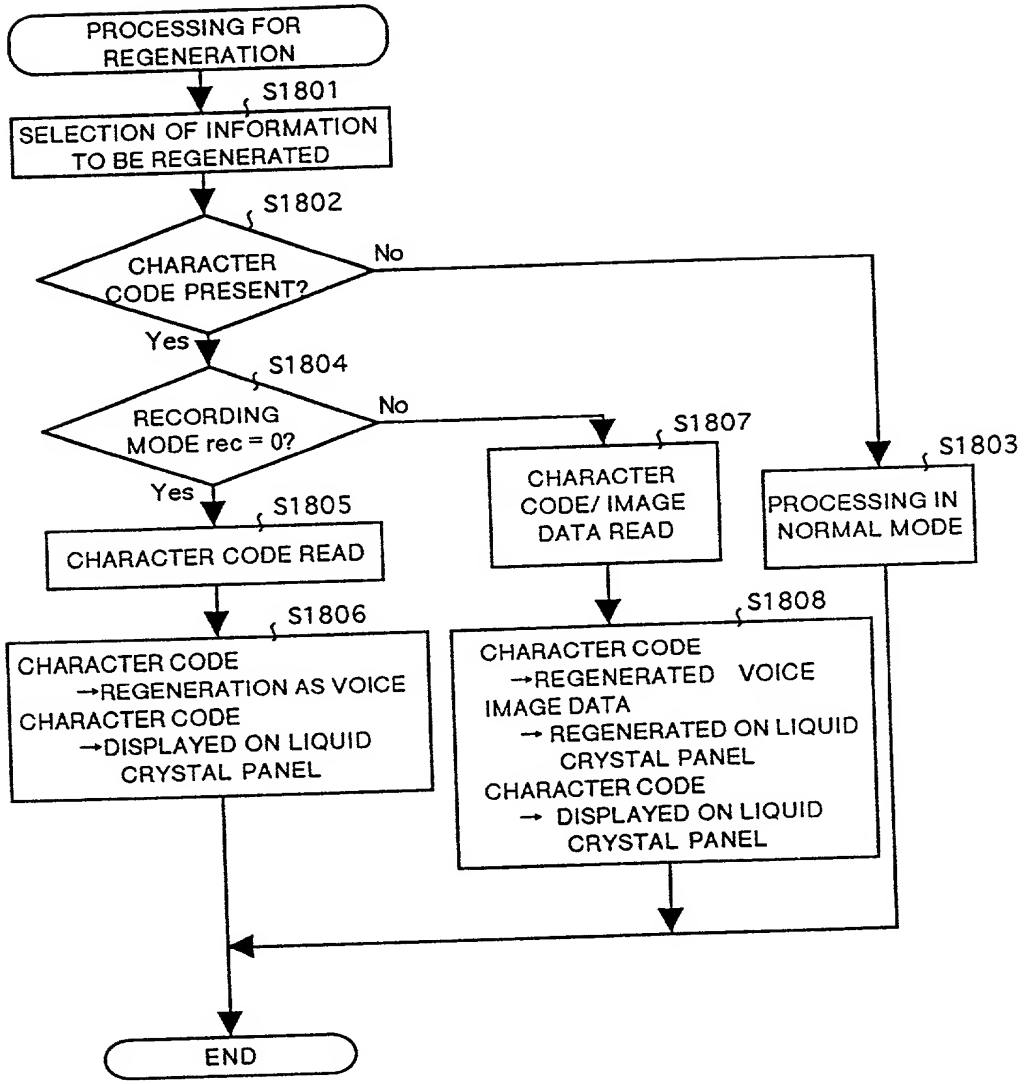

PROCESSING FOR REGENERATION
S1801
SELECTION OF INFORMATION TO BE REGENERATED
S1802
CHARACTER CODE PRESENT?
No
Yes
S1804
RECORDING MODE rec = 0?
No
Yes
S1807
CHARACTER CODE/ IMAGE DATA READ
S1803
PROCESSING IN NORMAL MODE
S1805
CHARACTER CODE READ
S1806
CHARACTER CODE →REGENERATION AS VOICE
CHARACTER CODE →DISPLAYED ON LIQUID CRYSTAL PANEL
S1808
CHARACTER CODE →REGENERATED VOICE
IMAGE DATA → REGENERATED ON LIQUID CRYSTAL PANEL
CHARACTER CODE → DISPLAYED ON LIQUID CRYSTAL PANEL
END

FIG.19

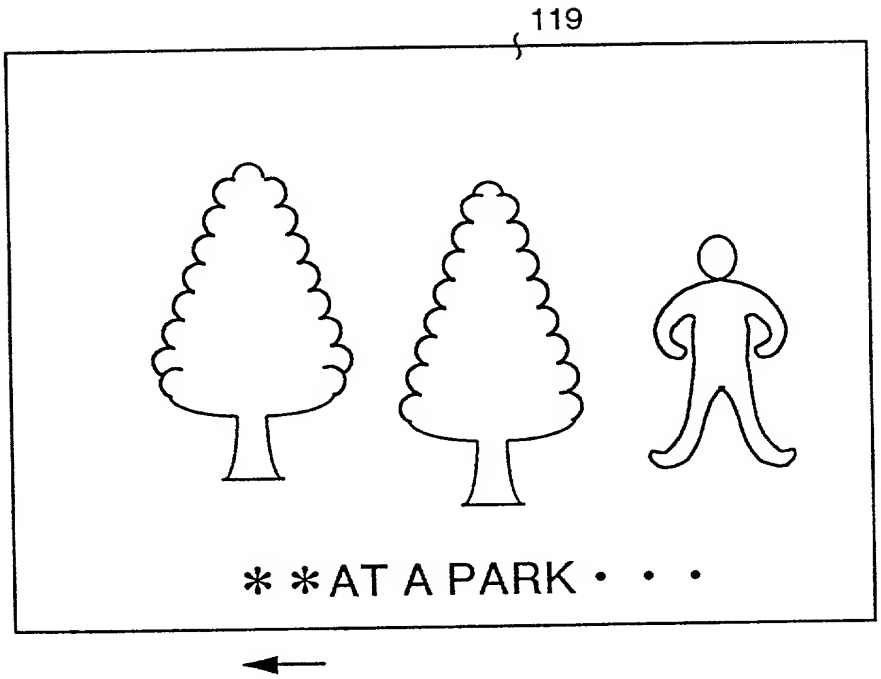


FIG.20

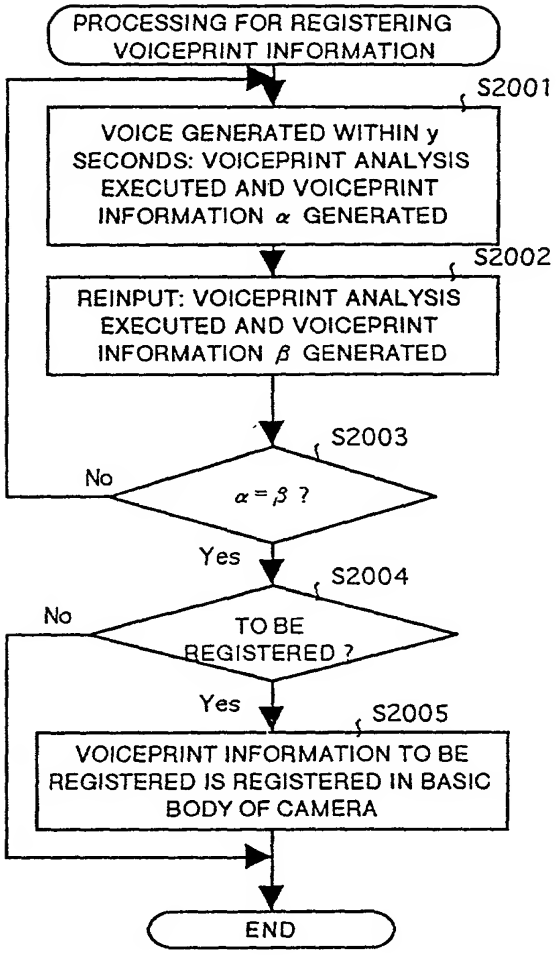

PROCESSING FOR REGISTERING VOICEPRINT INFORMATION
S2001
VOICE GENERATED WITHIN y SECONDS: VOICEPRINT ANALYSIS EXECUTED AND VOICEPRINT INFORMATION α GENERATED
S2002
REINPUT: VOICEPRINT ANALYSIS EXECUTED AND VOICEPRINT INFORMATION β GENERATED
S2003
α = β ?
No
Yes
S2004
TO BE REGISTERED ?
No
Yes
S2005
VOICEPRINT INFORMATION TO BE REGISTERED IS REGISTERED IN BASIC BODY OF CAMERA
END

FIG.21

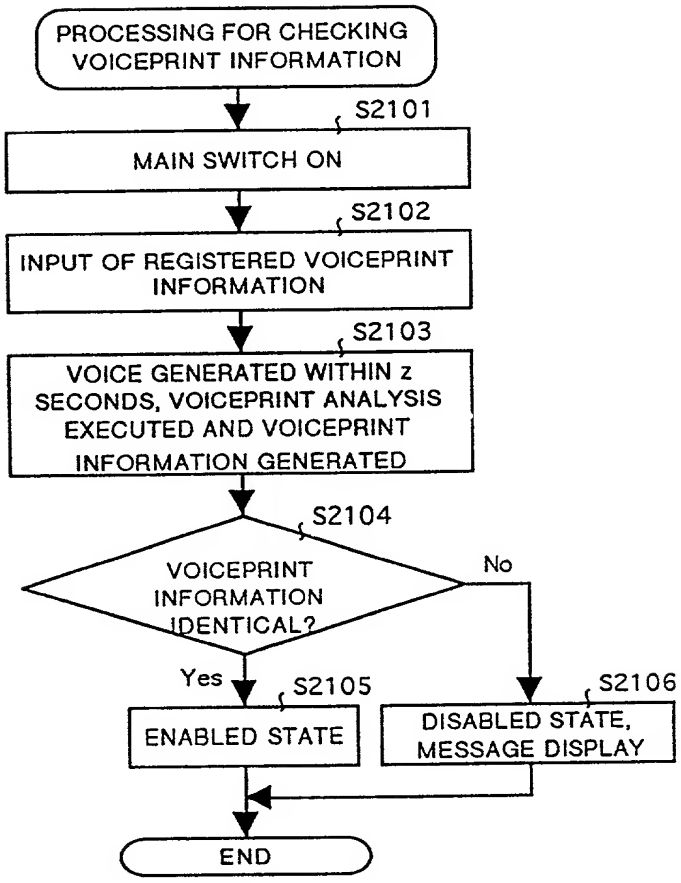

PROCESSING FOR CHECKING VOICEPRINT INFORMATION
S2101
MAIN SWITCH ON
S2102
INPUT OF REGISTERED VOICEPRINT INFORMATION
S2103
VOICE GENERATED WITHIN z SECONDS, VOICEPRINT ANALYSIS EXECUTED AND VOICEPRINT INFORMATION GENERATED
S2104
VOICEPRINT INFORMATION IDENTICAL?
No
Yes
S2105
ENABLED STATE
S2106
DISABLED STATE, MESSAGE DISPLAY
END

FIG.22

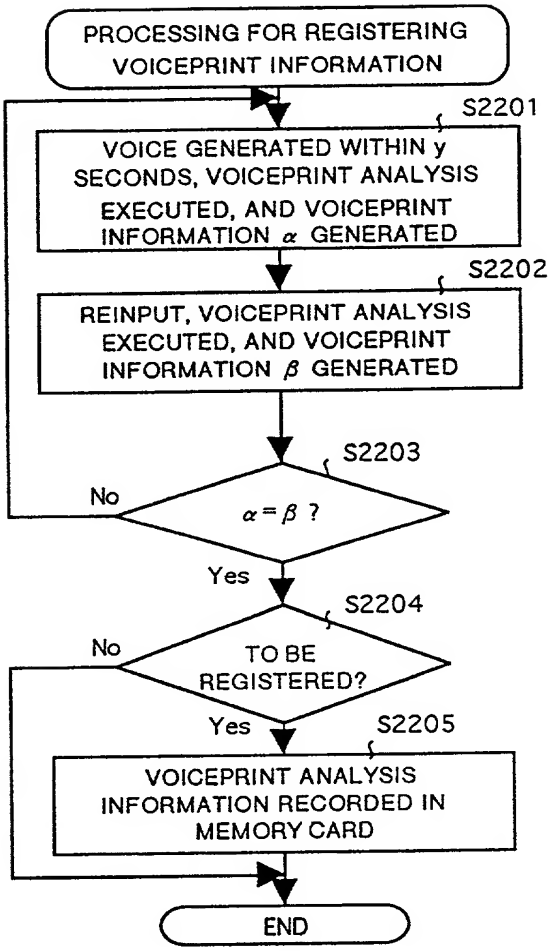

PROCESSING FOR REGISTERING VOICEPRINT INFORMATION
S2201
VOICE GENERATED WITHIN y SECONDS, VOICEPRINT ANALYSIS EXECUTED, AND VOICEPRINT INFORMATION α GENERATED
S2202
REINPUT, VOICEPRINT ANALYSIS EXECUTED, AND VOICEPRINT INFORMATION β GENERATED
S2203
α = β ?
No
Yes
S2204
TO BE REGISTERED?
No
Yes
S2205
VOICEPRINT ANALYSIS INFORMATION RECORDED IN MEMORY CARD
END

FIG.23

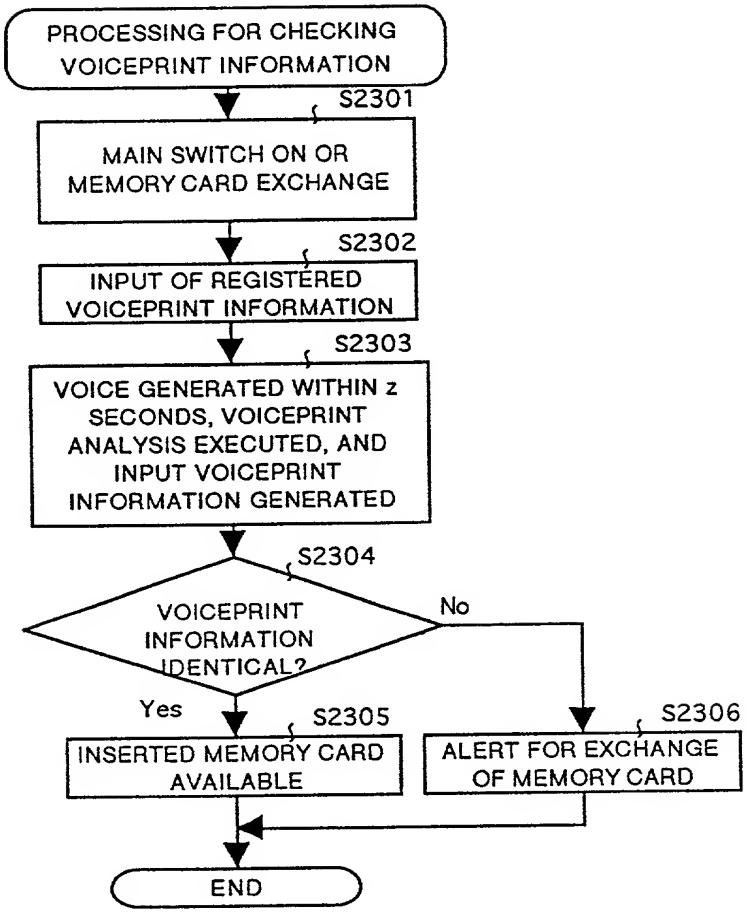

PROCESSING FOR CHECKING VOICEPRINT INFORMATION
S2301
MAIN SWITCH ON OR MEMORY CARD EXCHANGE
S2302
INPUT OF REGISTERED VOICEPRINT INFORMATION
S2303
VOICE GENERATED WITHIN z SECONDS, VOICEPRINT ANALYSIS EXECUTED, AND INPUT VOICEPRINT INFORMATION GENERATED
S2304
VOICEPRINT INFORMATION IDENTICAL?
No
Yes
S2305
INSERTED MEMORY CARD AVAILABLE
S2306
ALERT FOR EXCHANGE OF MEMORY CARD
END

FIG.24

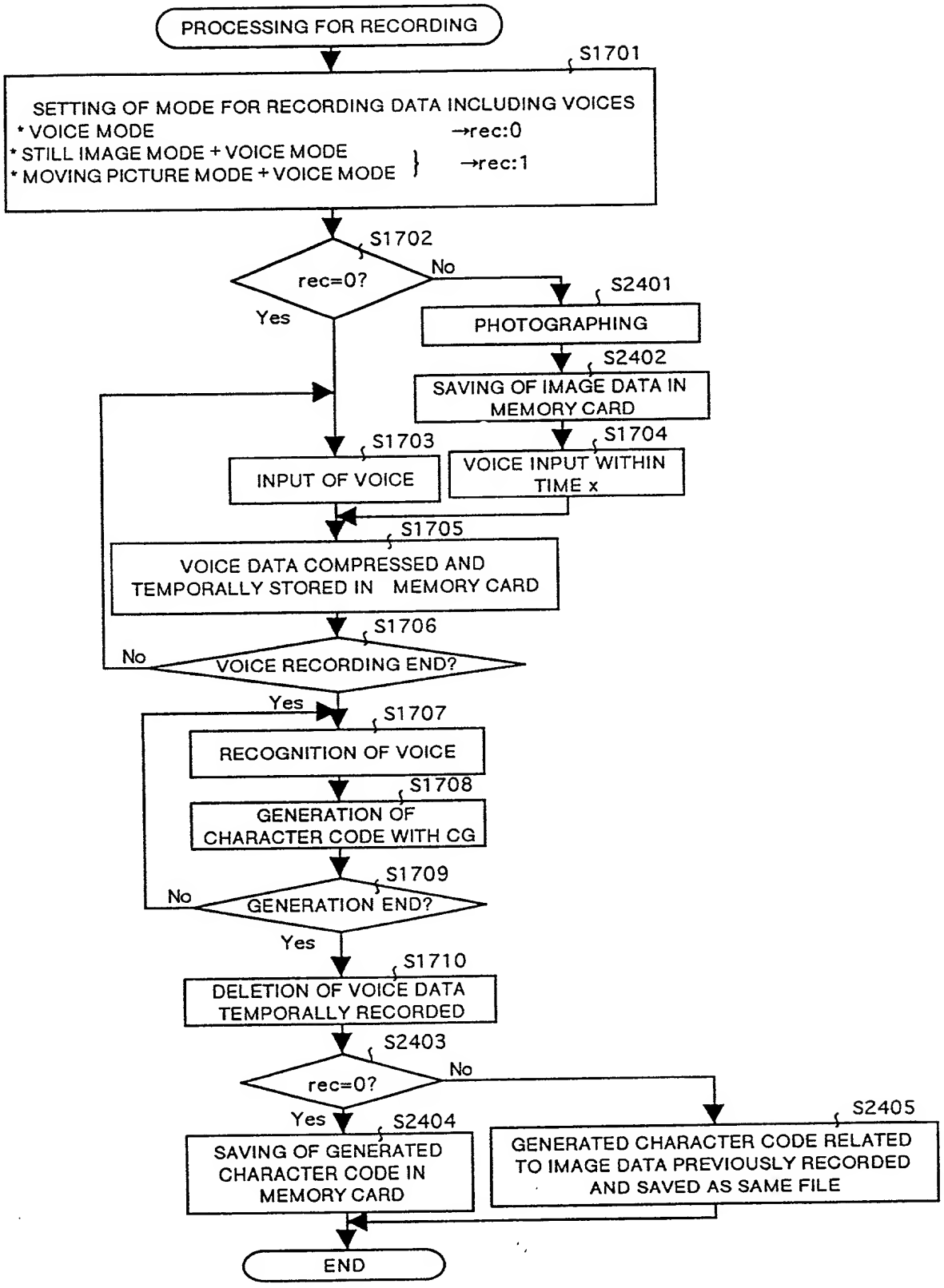

PROCESSING FOR RECORDING
S1701
SETTING OF MODE FOR RECORDING DATA INCLUDING VOICES
* VOICE MODE →rec:0
* STILL IMAGE MODE + VOICE MODE →rec:1
* MOVING PICTURE MODE + VOICE MODE
S1702
rec=0?
No
Yes
S2401
PHOTOGRAPHING
S2402
SAVING OF IMAGE DATA IN MEMORY CARD
S1703
INPUT OF VOICE
S1704
VOICE INPUT WITHIN TIME x
S1705
VOICE DATA COMPRESSED AND TEMPORALLY STORED IN MEMORY CARD
S1706
No
VOICE RECORDING END?
Yes
S1707
RECOGNITION OF VOICE
S1708
GENERATION OF CHARACTER CODE WITH CG
S1709
No
GENERATION END?
Yes
S1710
DELETION OF VOICE DATA TEMPORALLY RECORDED
S2403
rec=0?
No
Yes
S2404
SAVING OF GENERATED CHARACTER CODE IN MEMORY CARD
S2405
GENERATED CHARACTER CODE RELATED TO IMAGE DATA PREVIOUSLY RECORDED AND SAVED AS SAME FILE
END

FIG.25

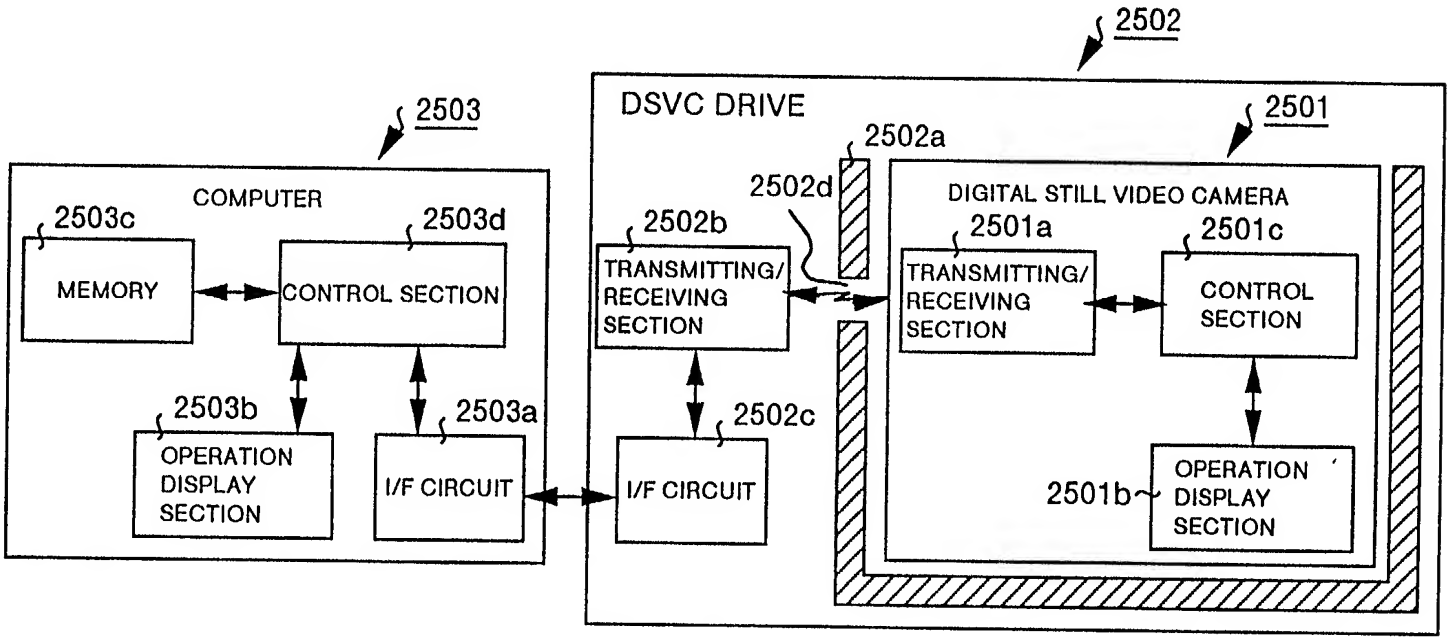

2502
DSVC DRIVE
2501
2503
2502a
2502d
COMPUTER
DIGITAL STILL VIDEO CAMERA
2503c
2503d
2502b
2501a
2501c
MEMORY
CONTROL SECTION
TRANSMITTING/ RECEIVING SECTION
TRANSMITTING/ RECEIVING SECTION
CONTROL SECTION
2503b
2503a
2502c
OPERATION DISPLAY SECTION
I/F CIRCUIT
I/F CIRCUIT
2501b
OPERATION DISPLAY SECTION

FIG.26

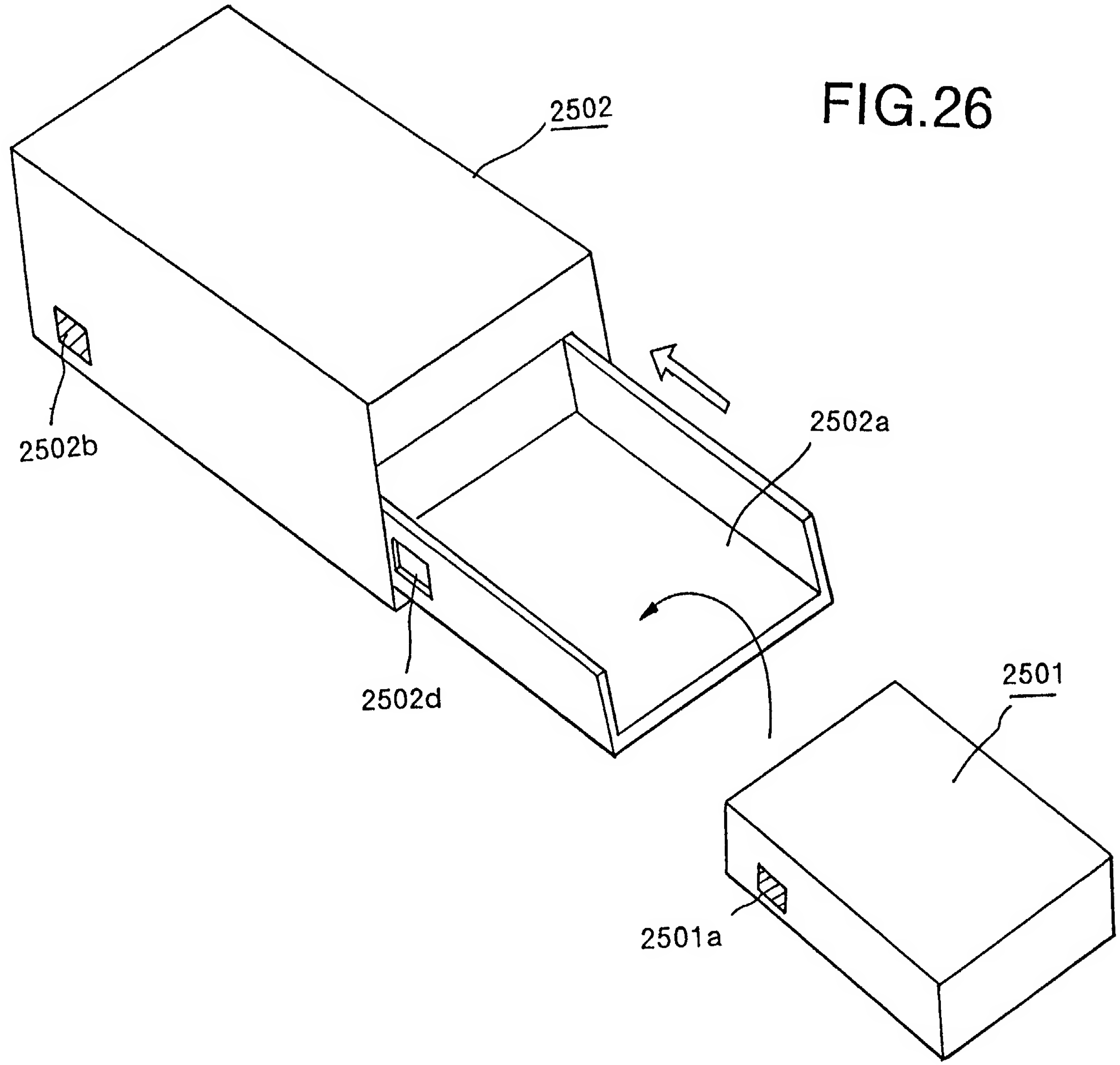


FIG.27

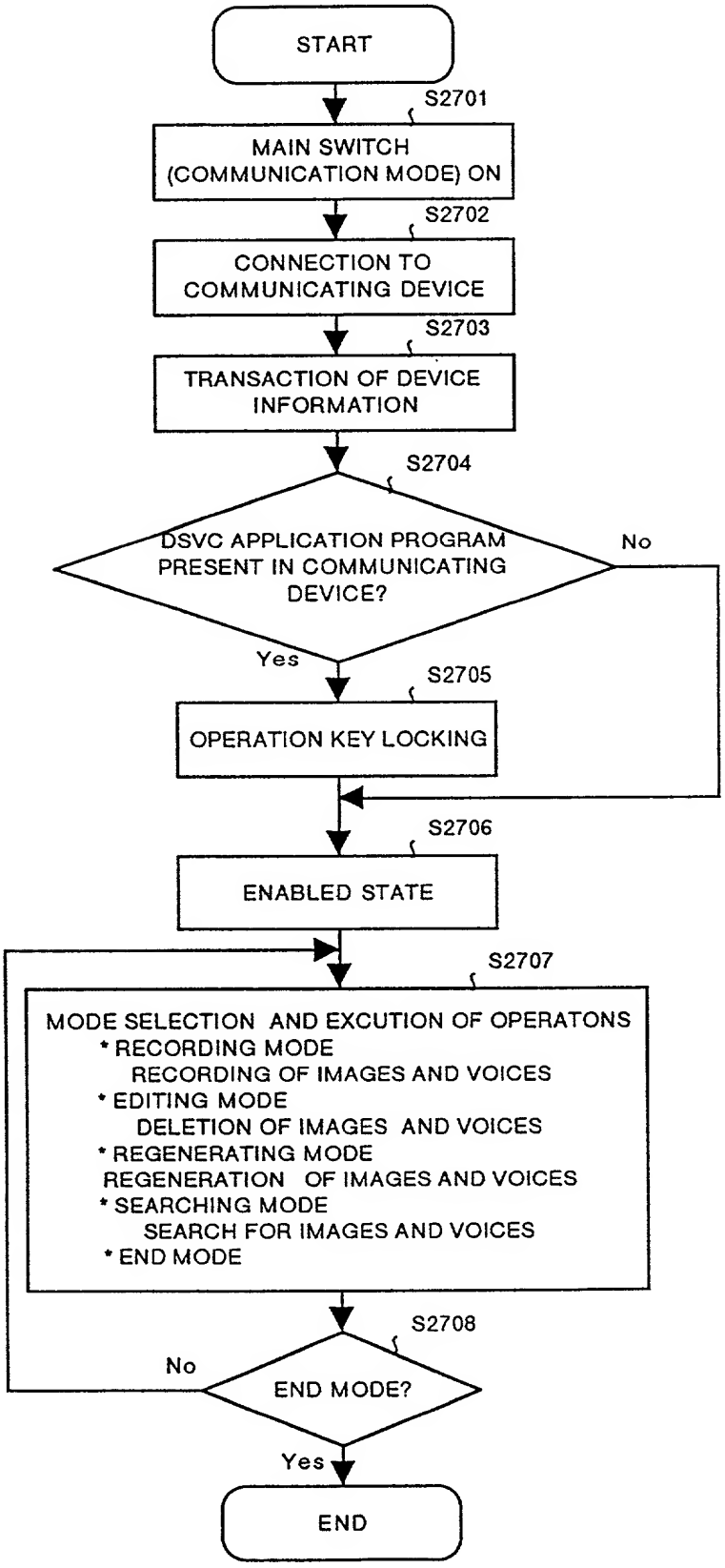

START
S2701
MAIN SWITCH (COMMUNICATION MODE) ON
S2702
CONNECTION TO COMMUNICATING DEVICE
S2703
TRANSACTION OF DEVICE INFORMATION
S2704
DSVC APPLICATION PROGRAM PRESENT IN COMMUNICATING DEVICE?
No
Yes
S2705
OPERATION KEY LOCKING
S2706
ENABLED STATE
S2707
MODE SELECTION AND EXCUTION OF OPERATONS
* RECORDING MODE
RECORDING OF IMAGES AND VOICES
* EDITING MODE
DELETION OF IMAGES AND VOICES
* REGENERATING MODE
REGENERATION OF IMAGES AND VOICES
* SEARCHING MODE
SEARCH FOR IMAGES AND VOICES
* END MODE
S2708
No
END MODE?
Yes
END

FIG.28

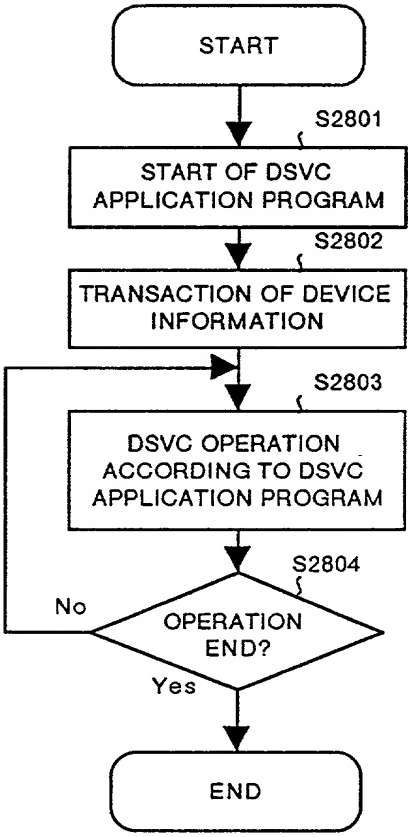

START
S2801
START OF DSVC APPLICATION PROGRAM
S2802
TRANSACTION OF DEVICE INFORMATION
S2803
DSVC OPERATION ACCORDING TO DSVC APPLICATION PROGRAM
S2804
OPERATION END?
No
Yes
END

FIG.29A

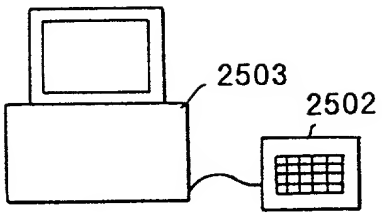


FIG.29B

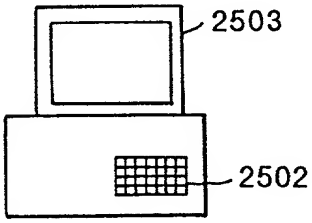


FIG.29C

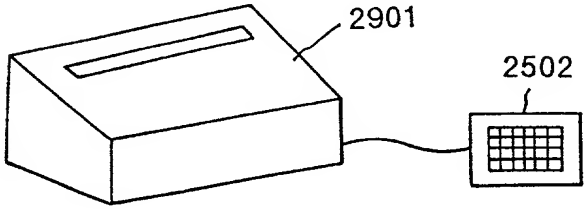


FIG.29D

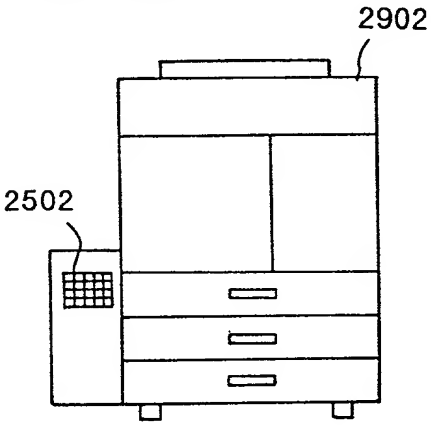


FIG.30

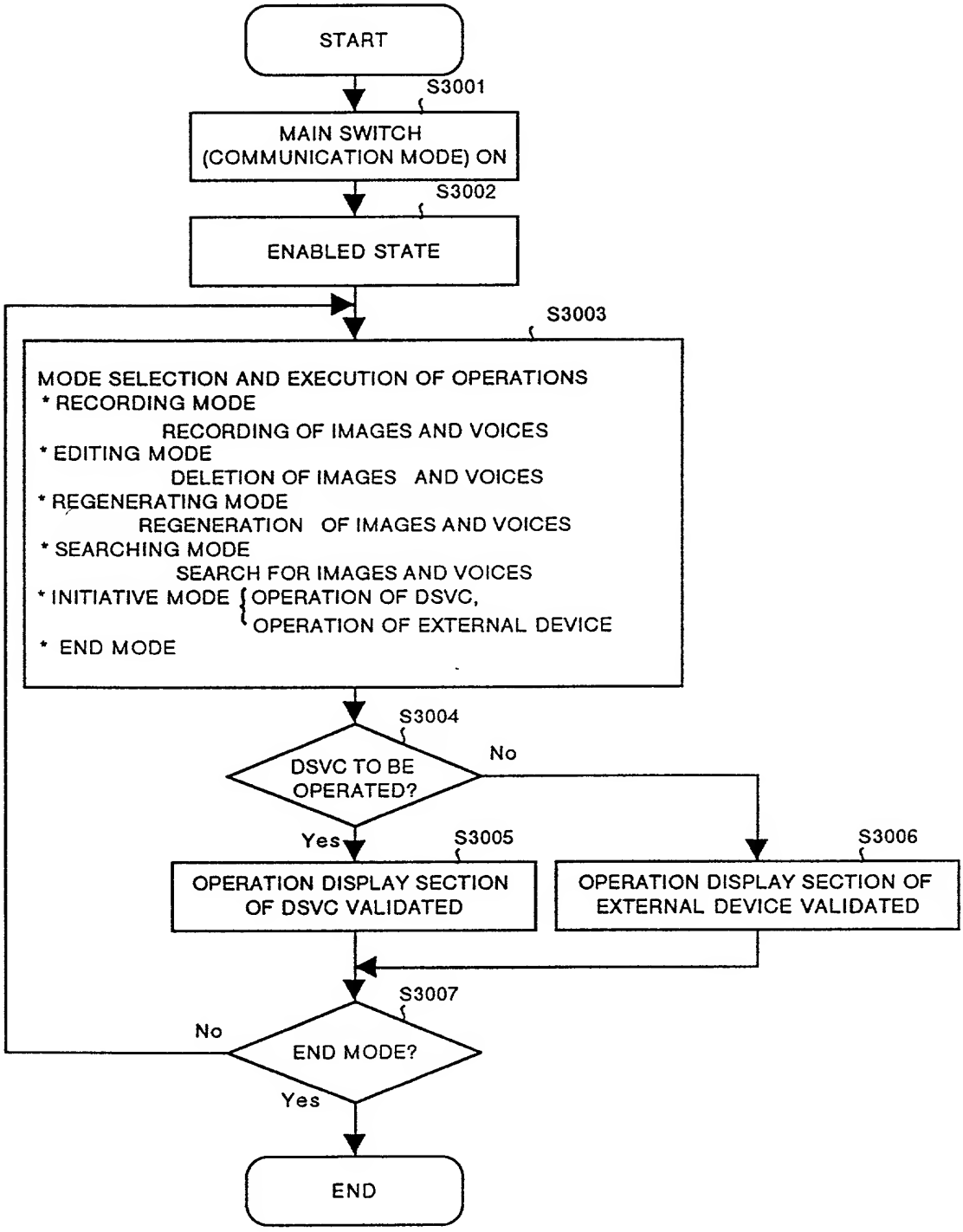

START
S3001
MAIN SWITCH (COMMUNICATION MODE) ON
S3002
ENABLED STATE
S3003
MODE SELECTION AND EXECUTION OF OPERATIONS
* RECORDING MODE
RECORDING OF IMAGES AND VOICES
* EDITING MODE
DELETION OF IMAGES AND VOICES
* REGENERATING MODE
REGENERATION OF IMAGES AND VOICES
* SEARCHING MODE
SEARCH FOR IMAGES AND VOICES
* INITIATIVE MODE { OPERATION OF DSVC, OPERATION OF EXTERNAL DEVICE
* END MODE
S3004
DSVC TO BE OPERATED?
No
Yes
S3005
OPERATION DISPLAY SECTION OF DSVC VALIDATED
S3006
OPERATION DISPLAY SECTION OF EXTERNAL DEVICE VALIDATED
S3007
No
END MODE?
Yes
END

FIG.31

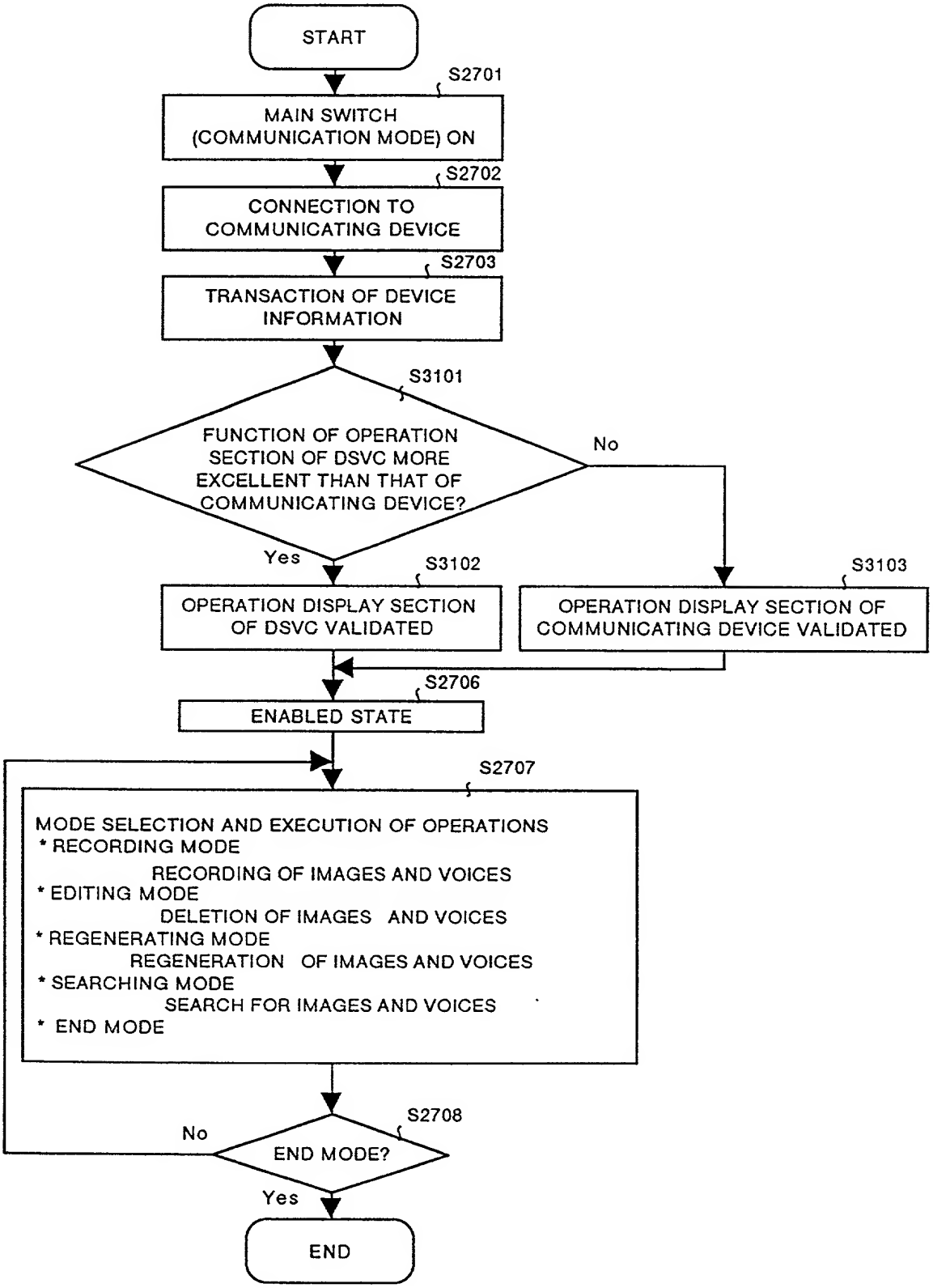

START
S2701
MAIN SWITCH (COMMUNICATION MODE) ON
S2702
CONNECTION TO COMMUNICATING DEVICE
S2703
TRANSACTION OF DEVICE INFORMATION
S3101
FUNCTION OF OPERATION SECTION OF DSVC MORE EXCELLENT THAN THAT OF COMMUNICATING DEVICE?
No
Yes
S3102
OPERATION DISPLAY SECTION OF DSVC VALIDATED
S3103
OPERATION DISPLAY SECTION OF COMMUNICATING DEVICE VALIDATED
S2706
ENABLED STATE
S2707
MODE SELECTION AND EXECUTION OF OPERATIONS
* RECORDING MODE
RECORDING OF IMAGES AND VOICES
* EDITING MODE
DELETION OF IMAGES AND VOICES
* REGENERATING MODE
REGENERATION OF IMAGES AND VOICES
* SEARCHING MODE
SEARCH FOR IMAGES AND VOICES
* END MODE
S2708
No
END MODE?
Yes
END

FIG.32

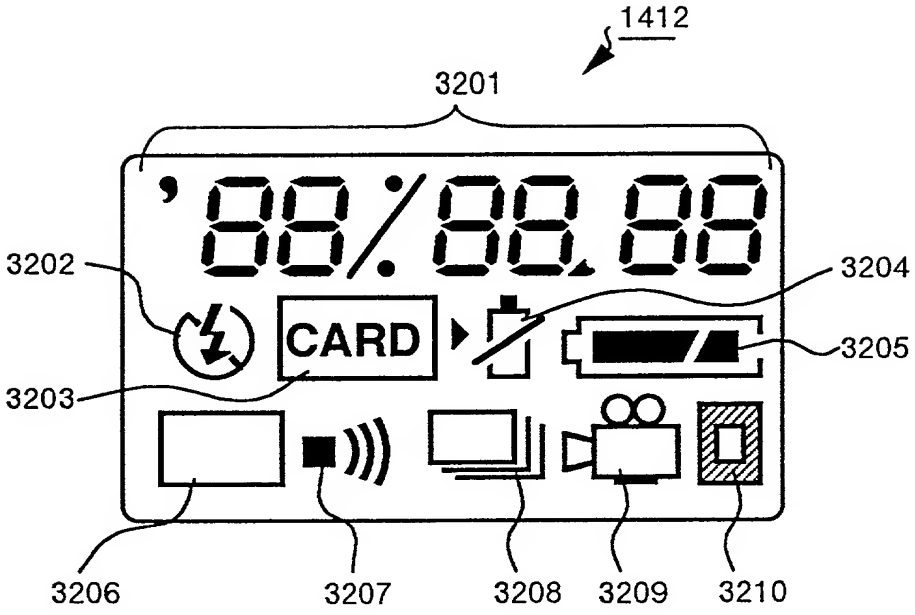

1412
3201
'88/88.88
3202
3204
CARD
3205
3203
3206
3207
3208
3209
3210

FIG.33

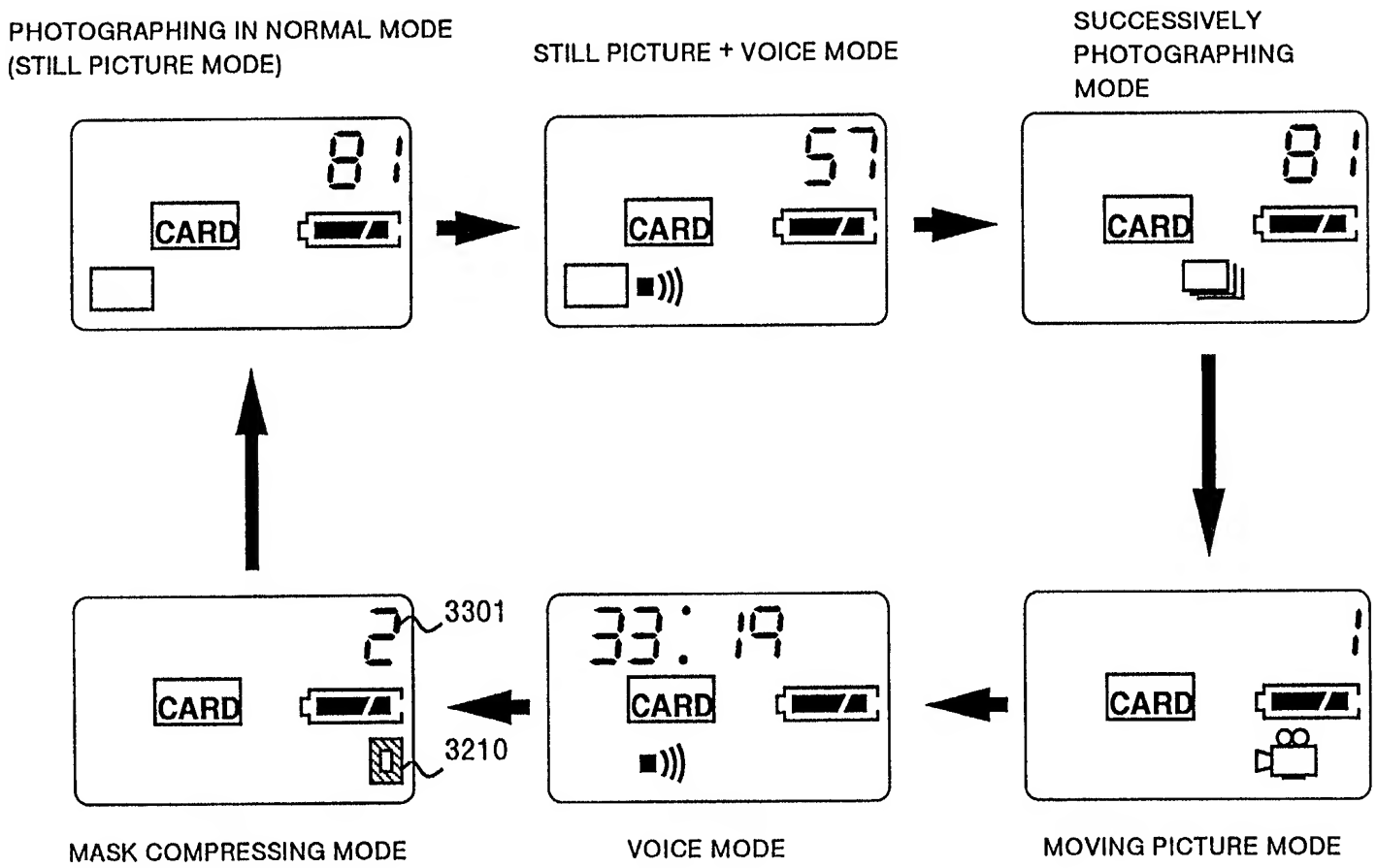

PHOTOGRAPHING IN NORMAL MODE
(STILL PICTURE MODE)
STILL PICTURE + VOICE MODE
SUCCESSIVELY
PHOTOGRAPHING
MODE
81
57
81
CARD
CARD
CARD
2
3301
33: 19
1
CARD
CARD
CARD
3210
MASK COMPRESSING MODE
VOICE MODE
MOVING PICTURE MODE

FIG.34

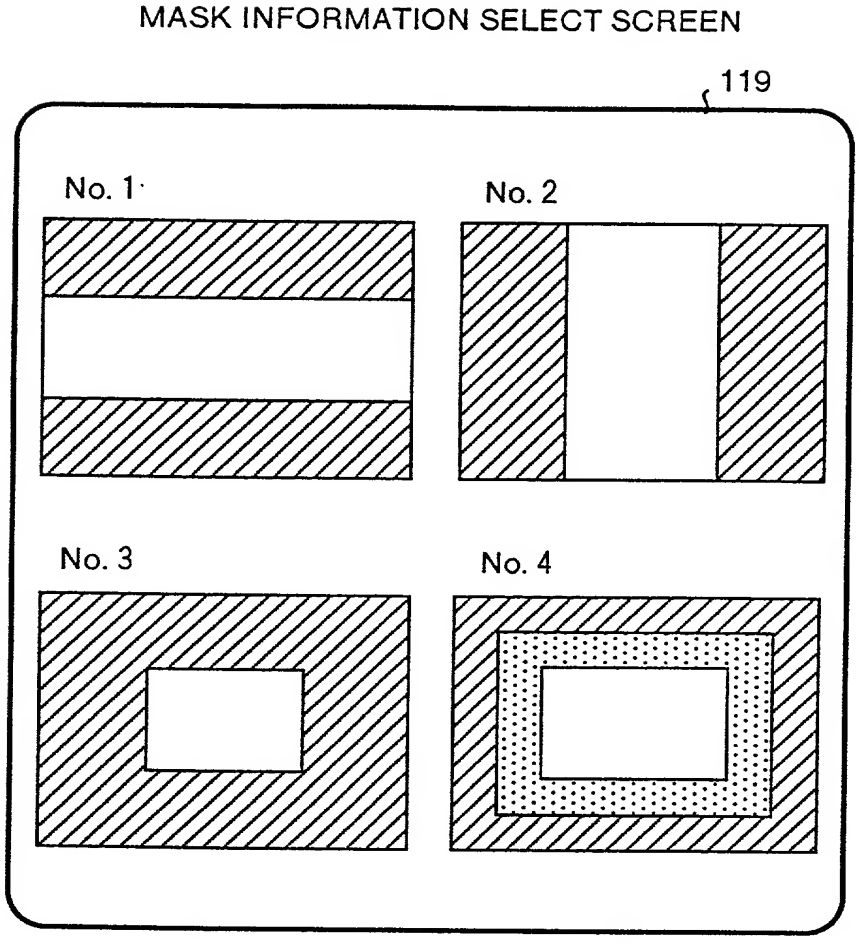
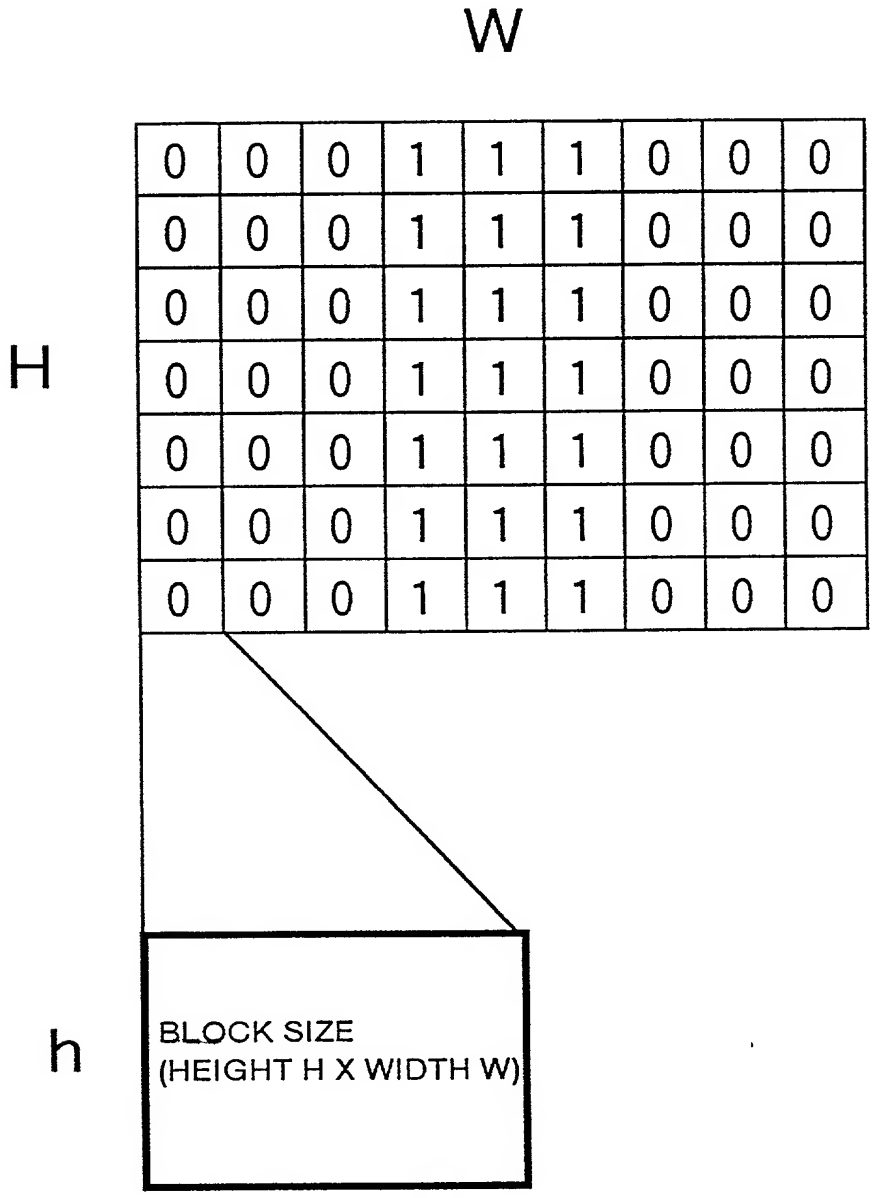


FIG.35

SCREEN WITH HEIGHT H X WIDTH W IS DIVIDED INTO M X N BLOCKS



$h = H / M$,
$w = W / N$

FIG.36

0	0	0	0	0	0	0	0	0
0	2	2	2	2	2	2	2	0
0	2	1	1	1	1	1	2	0
0	2	1	1	1	1	1	2	0
0	2	1	1	1	1	1	2	0
0	2	2	2	2	2	2	2	0
0	0	0	0	0	0	0	0	0

FIG.37

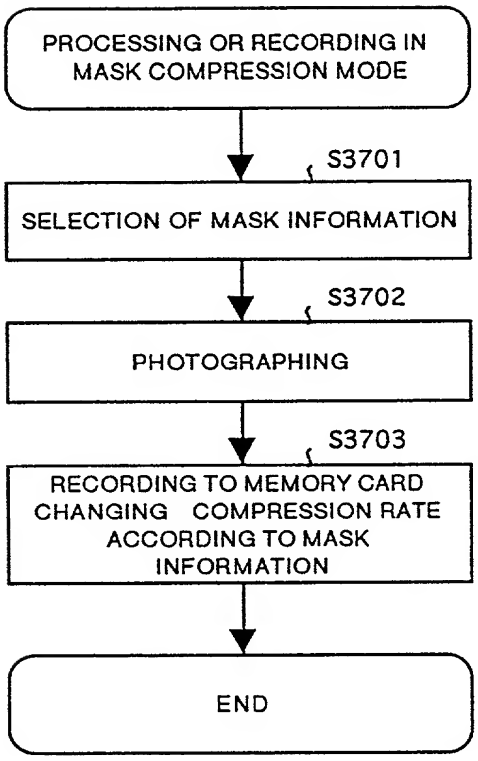

PROCESSING OR RECORDING IN MASK COMPRESSION MODE
S3701
SELECTION OF MASK INFORMATION
S3702
PHOTOGRAPHING
S3703
RECORDING TO MEMORY CARD CHANGING COMPRESSION RATE ACCORDING TO MASK INFORMATION
END

FIG.38

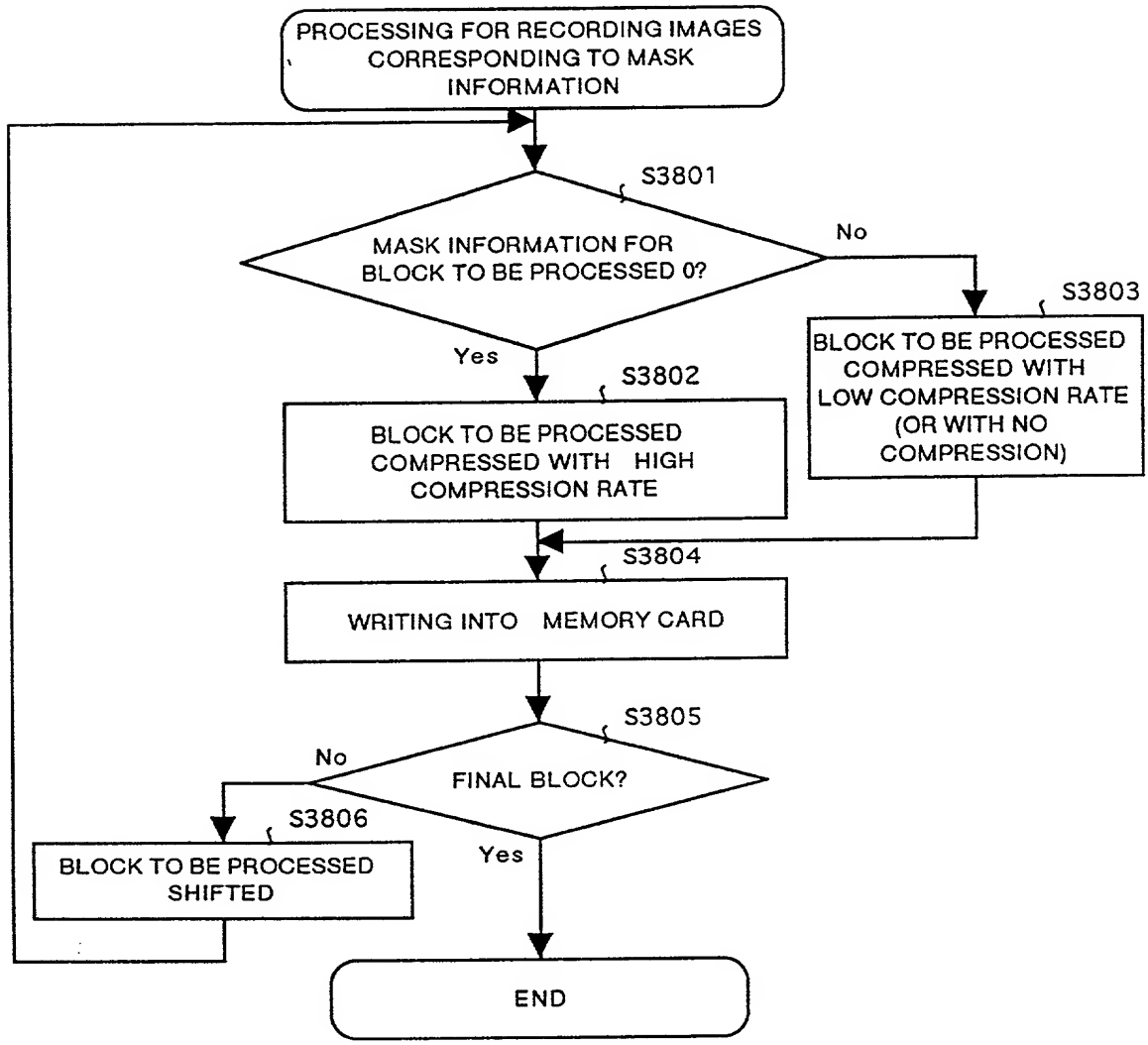

PROCESSING FOR RECORDING IMAGES CORRESPONDING TO MASK INFORMATION
S3801
MASK INFORMATION FOR BLOCK TO BE PROCESSED 0?
No
Yes
S3803
BLOCK TO BE PROCESSED COMPRESSED WITH LOW COMPRESSION RATE (OR WITH NO COMPRESSION)
S3802
BLOCK TO BE PROCESSED COMPRESSED WITH HIGH COMPRESSION RATE
S3804
WRITING INTO MEMORY CARD
S3805
No
FINAL BLOCK?
S3806
BLOCK TO BE PROCESSED SHIFTED
Yes
END

FIG.39

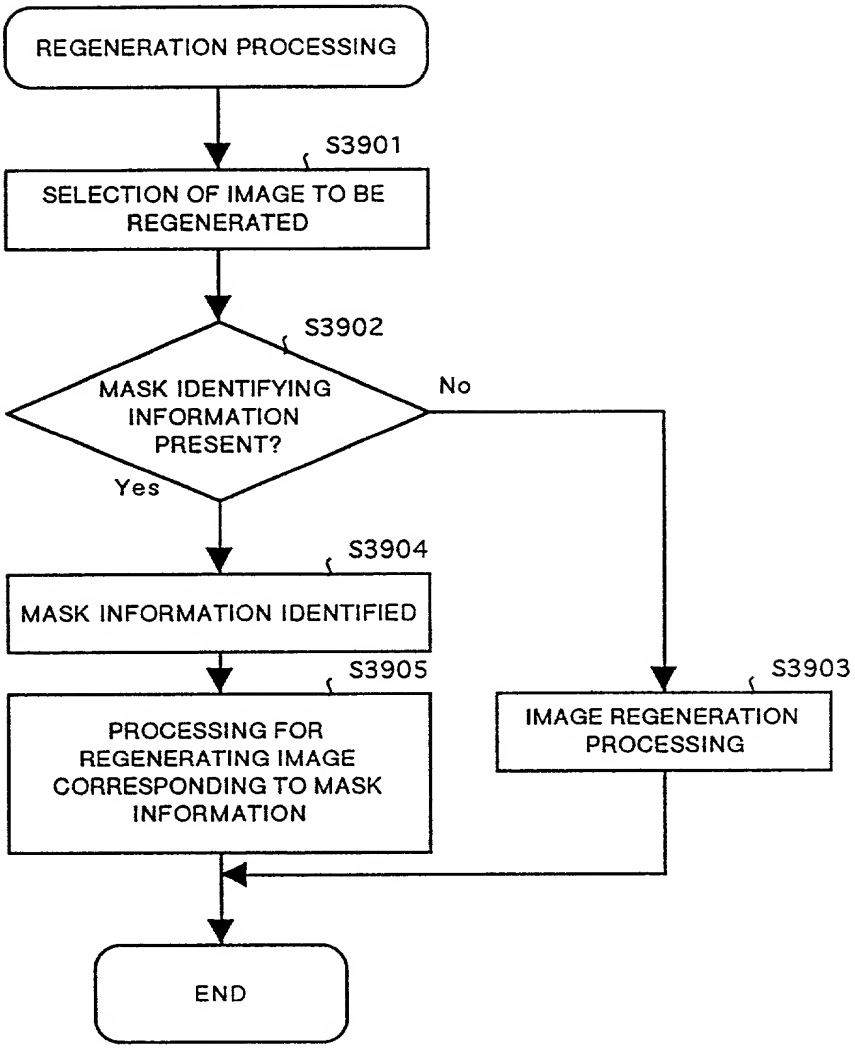

REGENERATION PROCESSING
S3901
SELECTION OF IMAGE TO BE REGENERATED
S3902
MASK IDENTIFYING INFORMATION PRESENT?
No
Yes
S3904
MASK INFORMATION IDENTIFIED
S3905
PROCESSING FOR REGENERATING IMAGE CORRESPONDING TO MASK INFORMATION
S3903
IMAGE REGENERATION PROCESSING
END

FIG.40

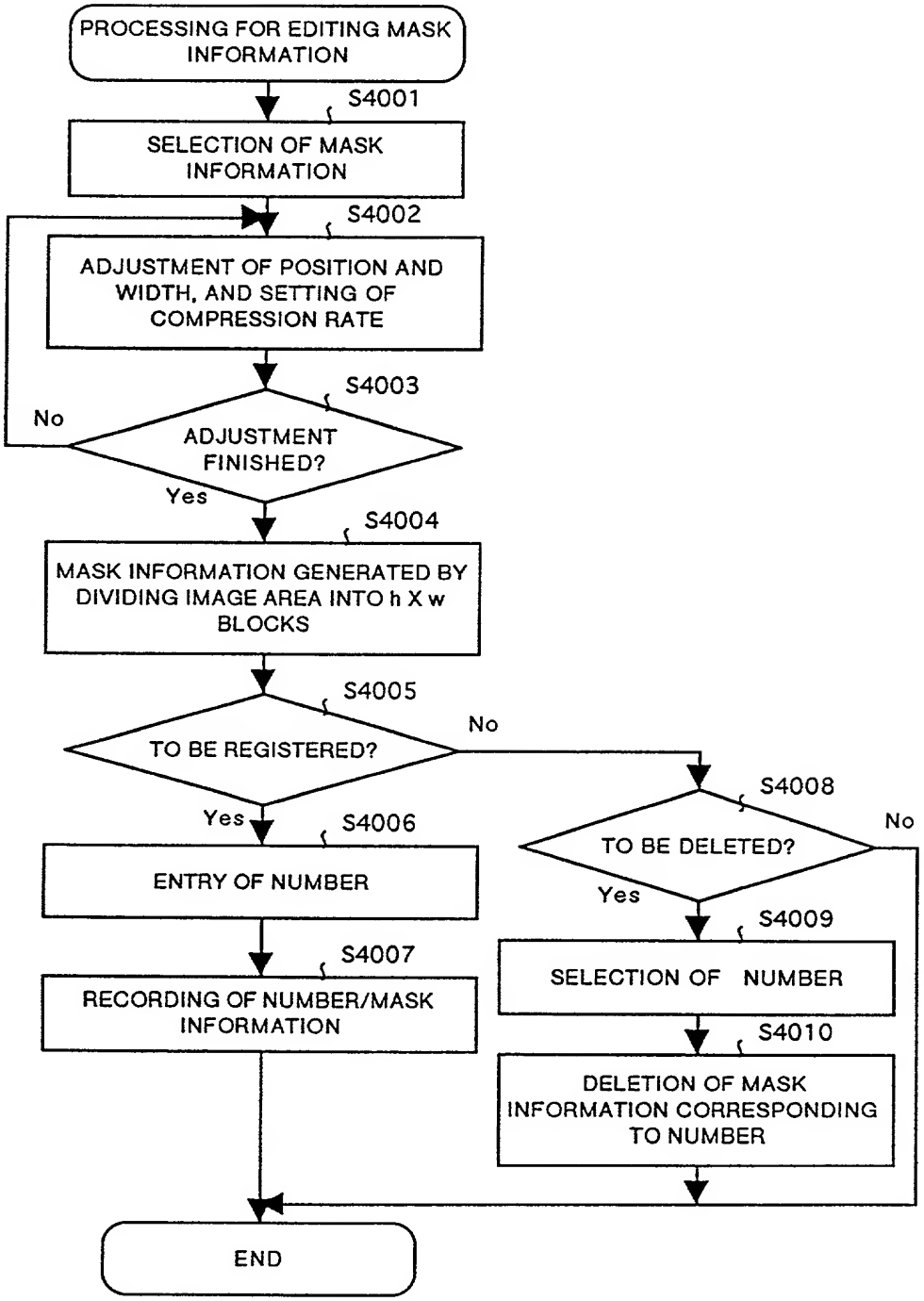

PROCESSING FOR EDITING MASK INFORMATION
S4001
SELECTION OF MASK INFORMATION
S4002
ADJUSTMENT OF POSITION AND WIDTH, AND SETTING OF COMPRESSION RATE
S4003
No
ADJUSTMENT FINISHED?
Yes
S4004
MASK INFORMATION GENERATED BY DIVIDING IMAGE AREA INTO h X w BLOCKS
S4005
TO BE REGISTERED?
No
Yes
S4006
ENTRY OF NUMBER
S4007
RECORDING OF NUMBER/MASK INFORMATION
S4008
TO BE DELETED?
No
Yes
S4009
SELECTION OF NUMBER
S4010
DELETION OF MASK INFORMATION CORRESPONDING TO NUMBER
END

FIG.41

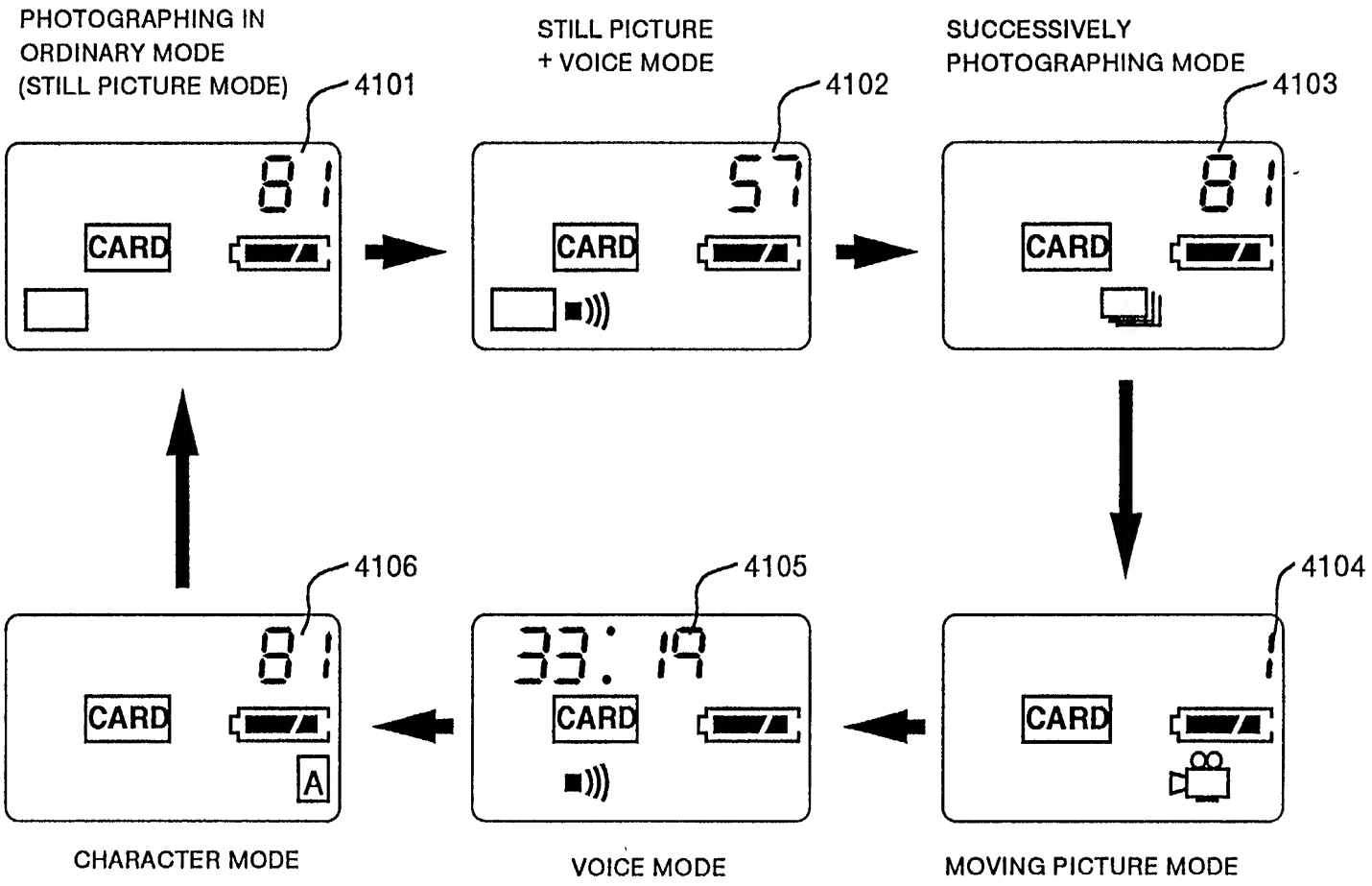

PHOTOGRAPHING IN ORDINARY MODE (STILL PICTURE MODE)
4101
81
CARD
STILL PICTURE + VOICE MODE
4102
57
CARD
SUCCESSIVELY PHOTOGRAPHING MODE
4103
81
CARD
4104
1
CARD
MOVING PICTURE MODE
4105
33:19
CARD
VOICE MODE
4106
81
CARD
A
CHARACTER MODE

FIG.42

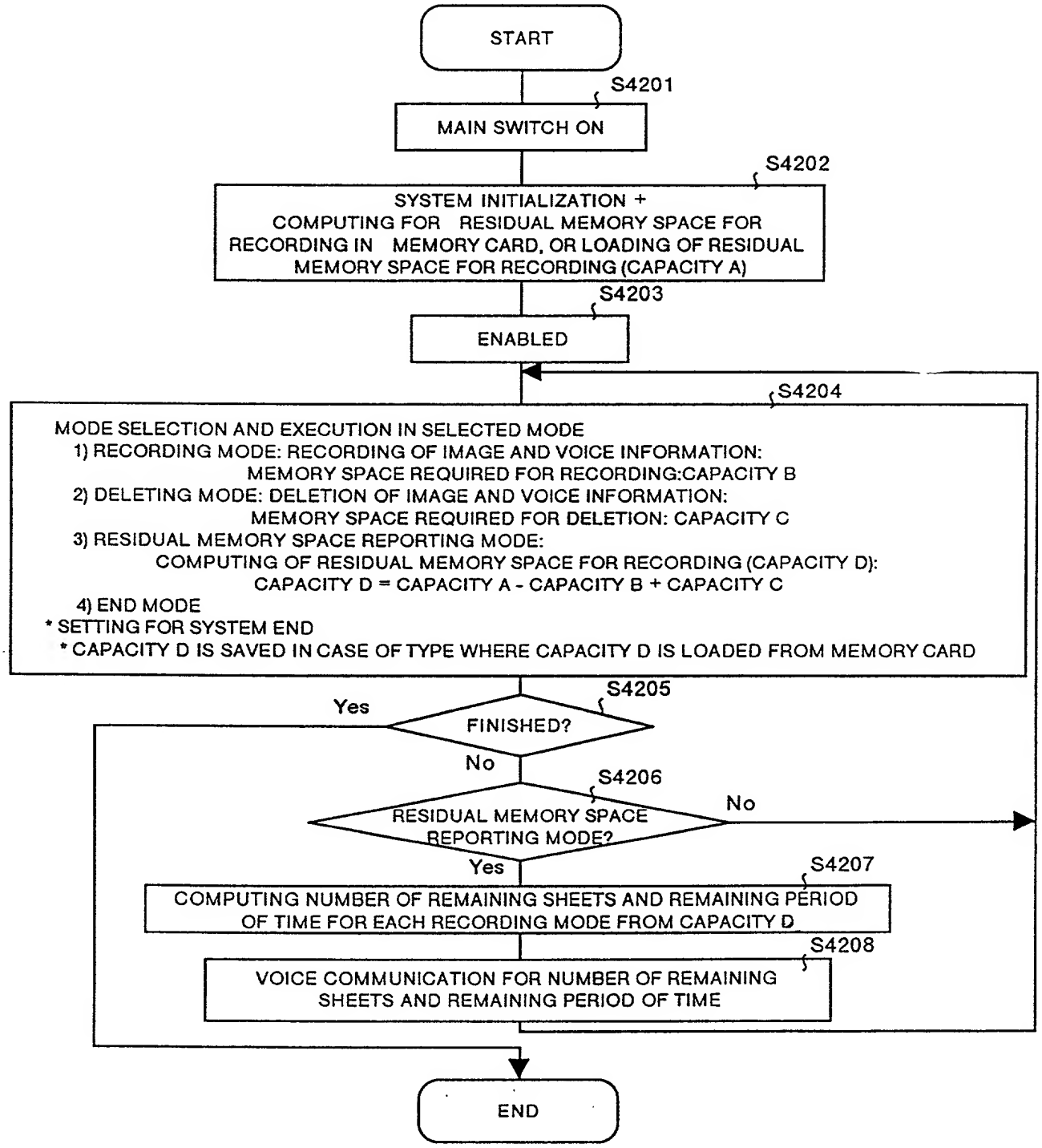

START
S4201
MAIN SWITCH ON
S4202
SYSTEM INITIALIZATION +
COMPUTING FOR RESIDUAL MEMORY SPACE FOR RECORDING IN MEMORY CARD, OR LOADING OF RESIDUAL MEMORY SPACE FOR RECORDING (CAPACITY A)
S4203
ENABLED
S4204
MODE SELECTION AND EXECUTION IN SELECTED MODE
1) RECORDING MODE: RECORDING OF IMAGE AND VOICE INFORMATION:
MEMORY SPACE REQUIRED FOR RECORDING:CAPACITY B
2) DELETING MODE: DELETION OF IMAGE AND VOICE INFORMATION:
MEMORY SPACE REQUIRED FOR DELETION: CAPACITY C
3) RESIDUAL MEMORY SPACE REPORTING MODE:
COMPUTING OF RESIDUAL MEMORY SPACE FOR RECORDING (CAPACITY D):
CAPACITY D = CAPACITY A - CAPACITY B + CAPACITY C
4) END MODE
* SETTING FOR SYSTEM END
* CAPACITY D IS SAVED IN CASE OF TYPE WHERE CAPACITY D IS LOADED FROM MEMORY CARD
S4205
Yes
FINISHED?
No
S4206
RESIDUAL MEMORY SPACE REPORTING MODE?
No
Yes
S4207
COMPUTING NUMBER OF REMAINING SHEETS AND REMAINING PERIOD OF TIME FOR EACH RECORDING MODE FROM CAPACITY D
S4208
VOICE COMMUNICATION FOR NUMBER OF REMAINING SHEETS AND REMAINING PERIOD OF TIME
END

FIG.43

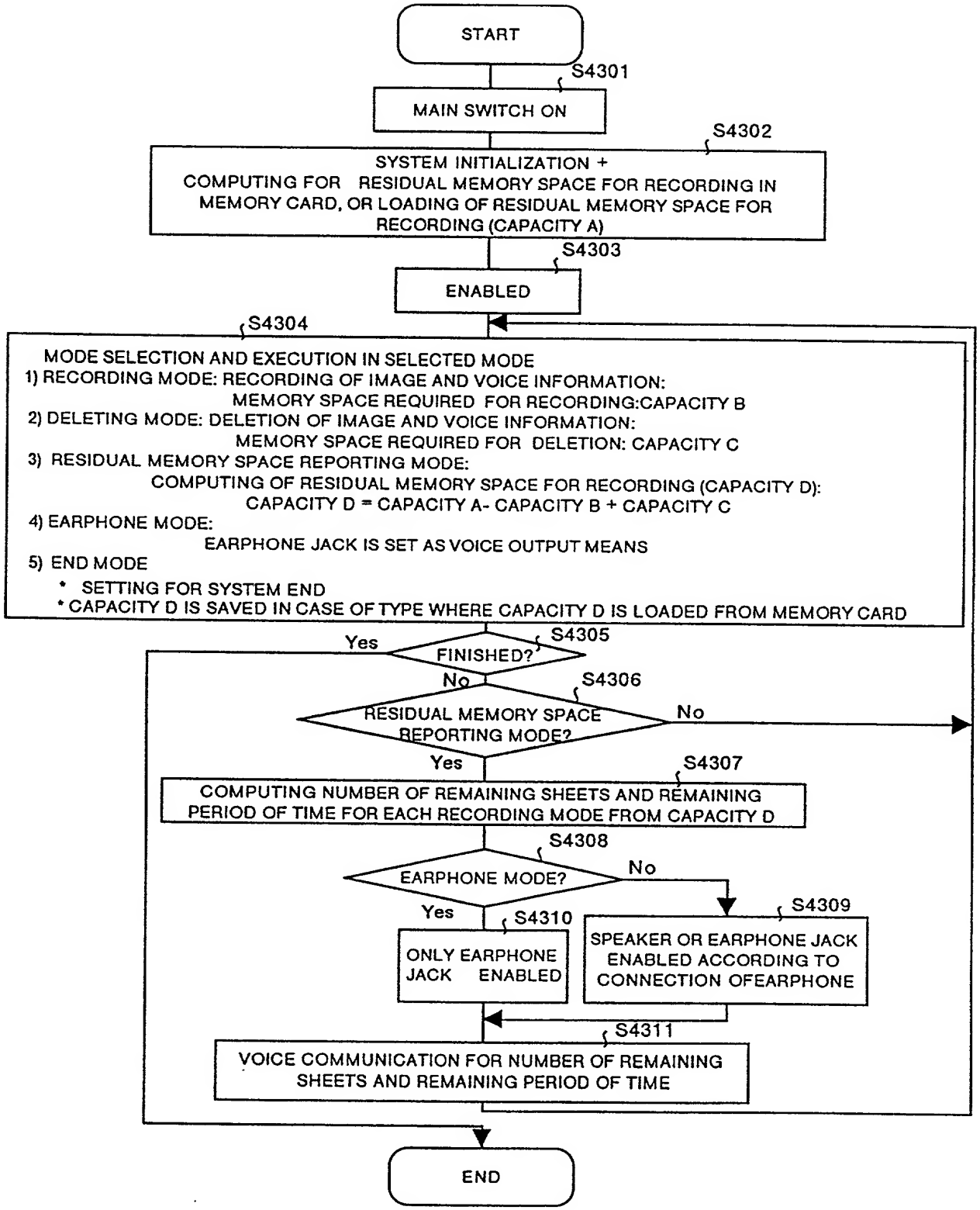

START
S4301
MAIN SWITCH ON
S4302
SYSTEM INITIALIZATION +
COMPUTING FOR RESIDUAL MEMORY SPACE FOR RECORDING IN MEMORY CARD, OR LOADING OF RESIDUAL MEMORY SPACE FOR RECORDING (CAPACITY A)
S4303
ENABLED
S4304
MODE SELECTION AND EXECUTION IN SELECTED MODE
1) RECORDING MODE: RECORDING OF IMAGE AND VOICE INFORMATION:
MEMORY SPACE REQUIRED FOR RECORDING:CAPACITY B
2) DELETING MODE: DELETION OF IMAGE AND VOICE INFORMATION:
MEMORY SPACE REQUIRED FOR DELETION: CAPACITY C
3) RESIDUAL MEMORY SPACE REPORTING MODE:
COMPUTING OF RESIDUAL MEMORY SPACE FOR RECORDING (CAPACITY D):
CAPACITY D = CAPACITY A- CAPACITY B + CAPACITY C
4) EARPHONE MODE:
EARPHONE JACK IS SET AS VOICE OUTPUT MEANS
5) END MODE
* SETTING FOR SYSTEM END
* CAPACITY D IS SAVED IN CASE OF TYPE WHERE CAPACITY D IS LOADED FROM MEMORY CARD
S4305
Yes
FINISHED?
No
S4306
RESIDUAL MEMORY SPACE REPORTING MODE?
No
Yes
S4307
COMPUTING NUMBER OF REMAINING SHEETS AND REMAINING PERIOD OF TIME FOR EACH RECORDING MODE FROM CAPACITY D
S4308
EARPHONE MODE?
No
Yes
S4310
ONLY EARPHONE JACK ENABLED
S4309
SPEAKER OR EARPHONE JACK ENABLED ACCORDING TO CONNECTION OFEARPHONE
S4311
VOICE COMMUNICATION FOR NUMBER OF REMAINING SHEETS AND REMAINING PERIOD OF TIME
END

FIG.44

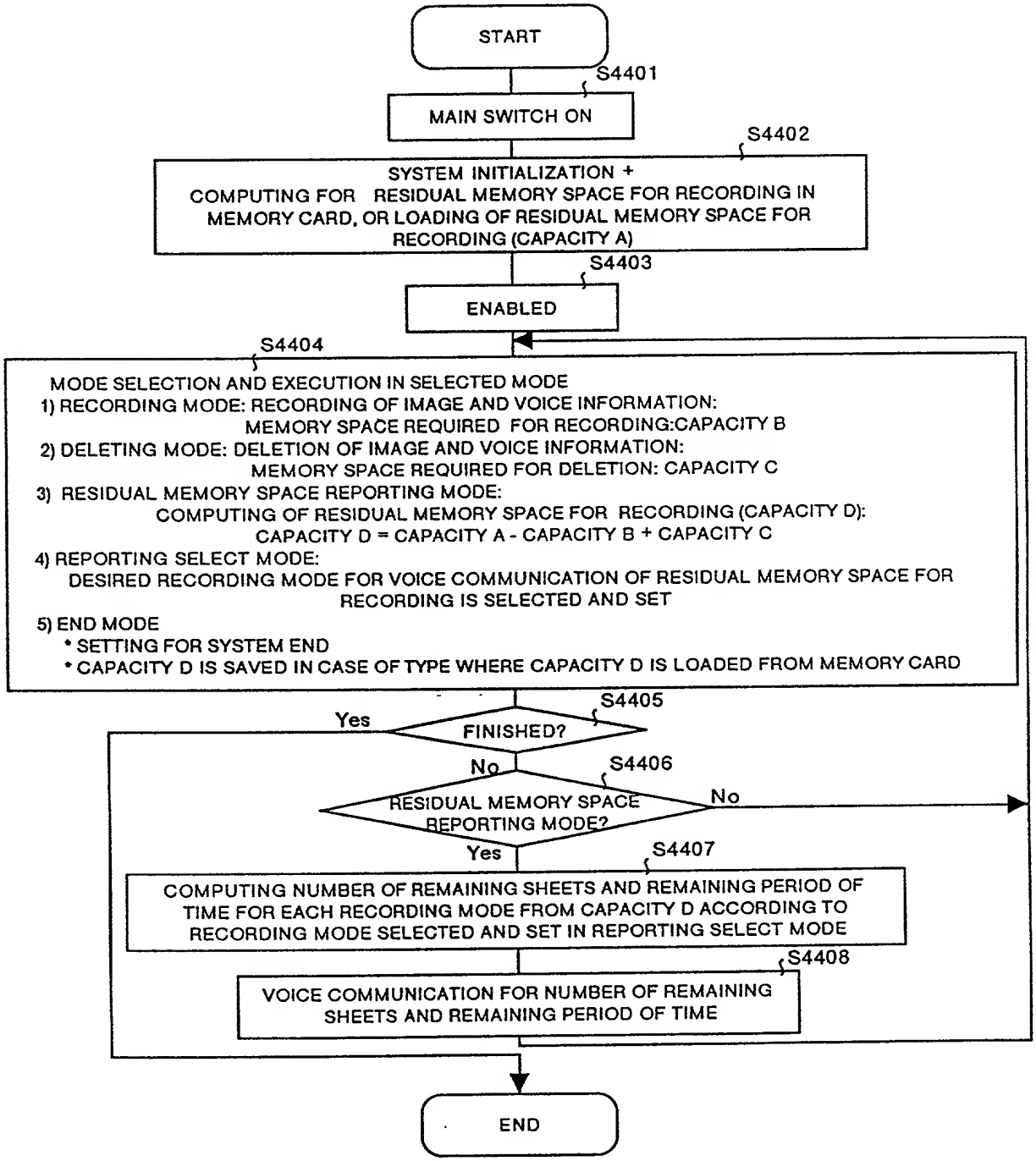

START
S4401
MAIN SWITCH ON
S4402
SYSTEM INITIALIZATION +
COMPUTING FOR RESIDUAL MEMORY SPACE FOR RECORDING IN MEMORY CARD, OR LOADING OF RESIDUAL MEMORY SPACE FOR RECORDING (CAPACITY A)
S4403
ENABLED
S4404
MODE SELECTION AND EXECUTION IN SELECTED MODE
1) RECORDING MODE: RECORDING OF IMAGE AND VOICE INFORMATION:
MEMORY SPACE REQUIRED FOR RECORDING:CAPACITY B
2) DELETING MODE: DELETION OF IMAGE AND VOICE INFORMATION:
MEMORY SPACE REQUIRED FOR DELETION: CAPACITY C
3) RESIDUAL MEMORY SPACE REPORTING MODE:
COMPUTING OF RESIDUAL MEMORY SPACE FOR RECORDING (CAPACITY D):
CAPACITY D = CAPACITY A - CAPACITY B + CAPACITY C
4) REPORTING SELECT MODE:
DESIRED RECORDING MODE FOR VOICE COMMUNICATION OF RESIDUAL MEMORY SPACE FOR RECORDING IS SELECTED AND SET
5) END MODE
* SETTING FOR SYSTEM END
* CAPACITY D IS SAVED IN CASE OF TYPE WHERE CAPACITY D IS LOADED FROM MEMORY CARD
S4405
Yes
FINISHED?
No
S4406
RESIDUAL MEMORY SPACE REPORTING MODE?
No
Yes
S4407
COMPUTING NUMBER OF REMAINING SHEETS AND REMAINING PERIOD OF TIME FOR EACH RECORDING MODE FROM CAPACITY D ACCORDING TO RECORDING MODE SELECTED AND SET IN REPORTING SELECT MODE
S4408
VOICE COMMUNICATION FOR NUMBER OF REMAINING SHEETS AND REMAINING PERIOD OF TIME
END

FIG.45

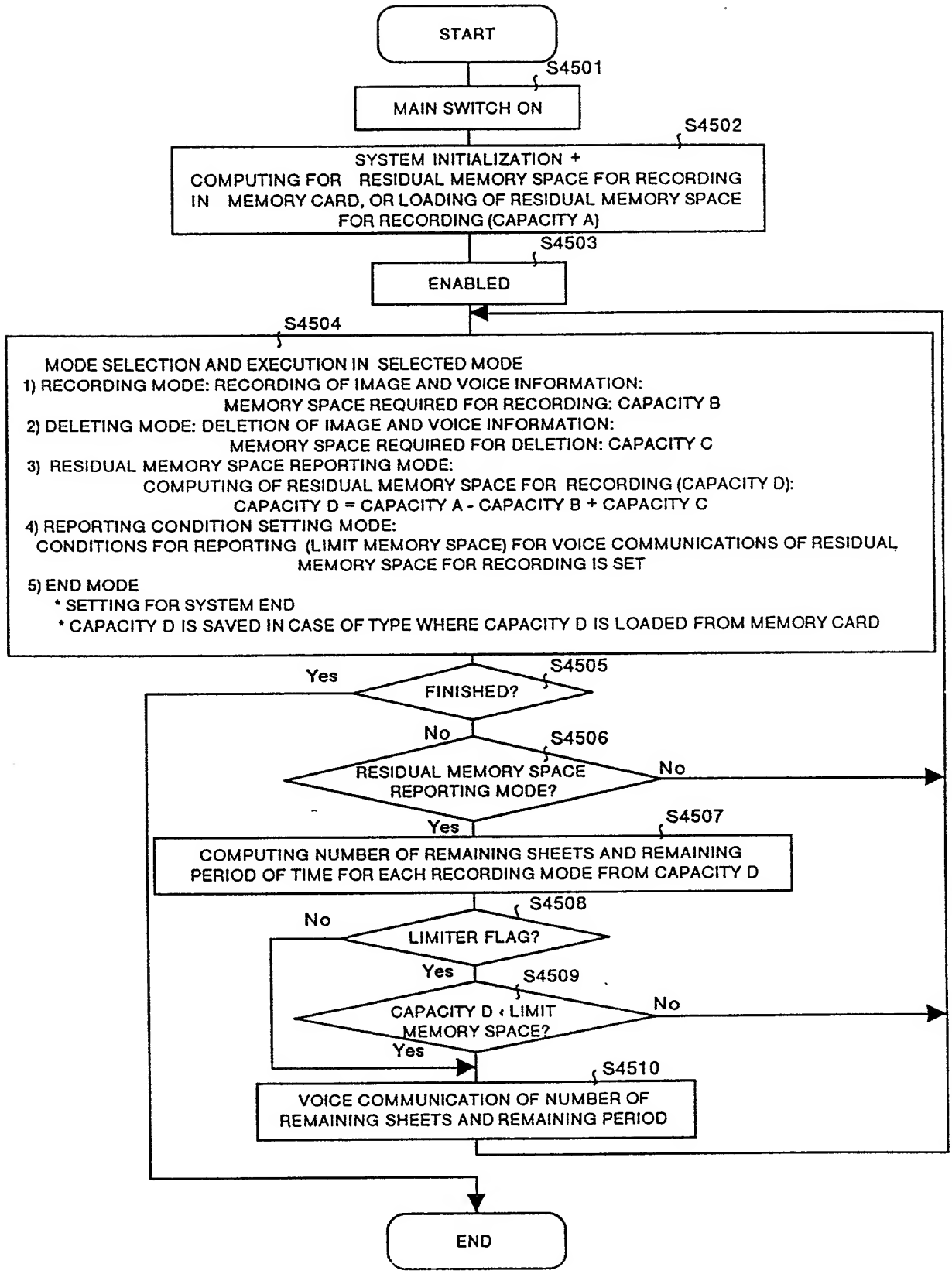

START
S4501
MAIN SWITCH ON
S4502
SYSTEM INITIALIZATION +
COMPUTING FOR RESIDUAL MEMORY SPACE FOR RECORDING IN MEMORY CARD, OR LOADING OF RESIDUAL MEMORY SPACE FOR RECORDING (CAPACITY A)
S4503
ENABLED
S4504
MODE SELECTION AND EXECUTION IN SELECTED MODE
1) RECORDING MODE: RECORDING OF IMAGE AND VOICE INFORMATION:
MEMORY SPACE REQUIRED FOR RECORDING: CAPACITY B
2) DELETING MODE: DELETION OF IMAGE AND VOICE INFORMATION:
MEMORY SPACE REQUIRED FOR DELETION: CAPACITY C
3) RESIDUAL MEMORY SPACE REPORTING MODE:
COMPUTING OF RESIDUAL MEMORY SPACE FOR RECORDING (CAPACITY D):
CAPACITY D = CAPACITY A - CAPACITY B + CAPACITY C
4) REPORTING CONDITION SETTING MODE:
CONDITIONS FOR REPORTING (LIMIT MEMORY SPACE) FOR VOICE COMMUNICATIONS OF RESIDUAL MEMORY SPACE FOR RECORDING IS SET
5) END MODE
* SETTING FOR SYSTEM END
* CAPACITY D IS SAVED IN CASE OF TYPE WHERE CAPACITY D IS LOADED FROM MEMORY CARD
S4505
FINISHED?
Yes
No
S4506
RESIDUAL MEMORY SPACE REPORTING MODE?
No
Yes
S4507
COMPUTING NUMBER OF REMAINING SHEETS AND REMAINING PERIOD OF TIME FOR EACH RECORDING MODE FROM CAPACITY D
S4508
LIMITER FLAG?
No
Yes
S4509
CAPACITY D < LIMIT MEMORY SPACE?
No
Yes
S4510
VOICE COMMUNICATION OF NUMBER OF REMAINING SHEETS AND REMAINING PERIOD
END

FIG.46

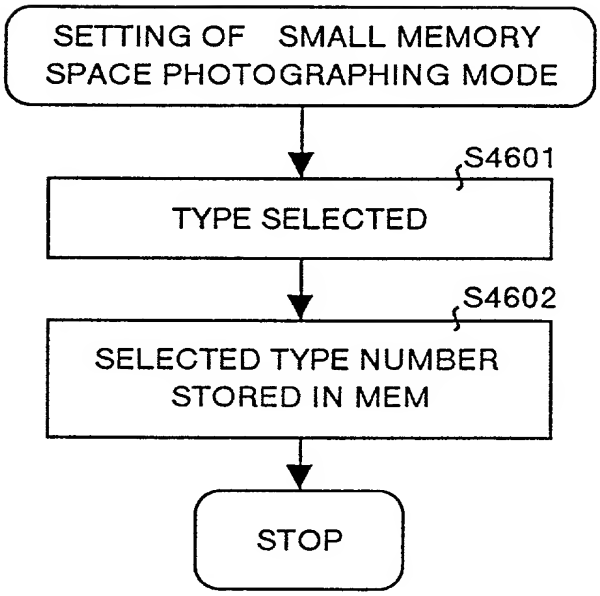

SETTING OF SMALL MEMORY SPACE PHOTOGRAPHING MODE
S4601
TYPE SELECTED
S4602
SELECTED TYPE NUMBER STORED IN MEM
STOP

FIG.47A

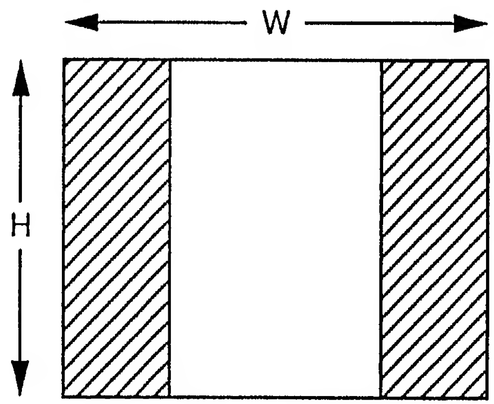


FIG.47B

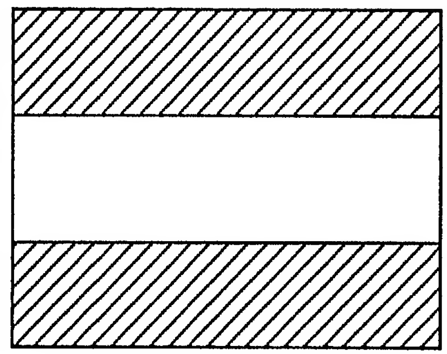


FIG.47C

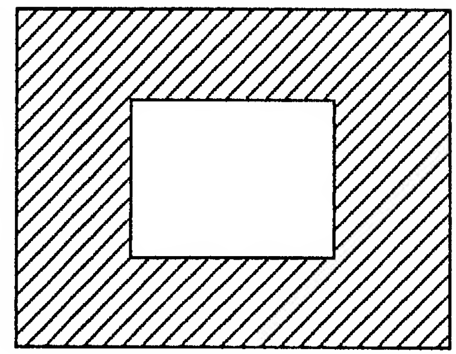


FIG.48

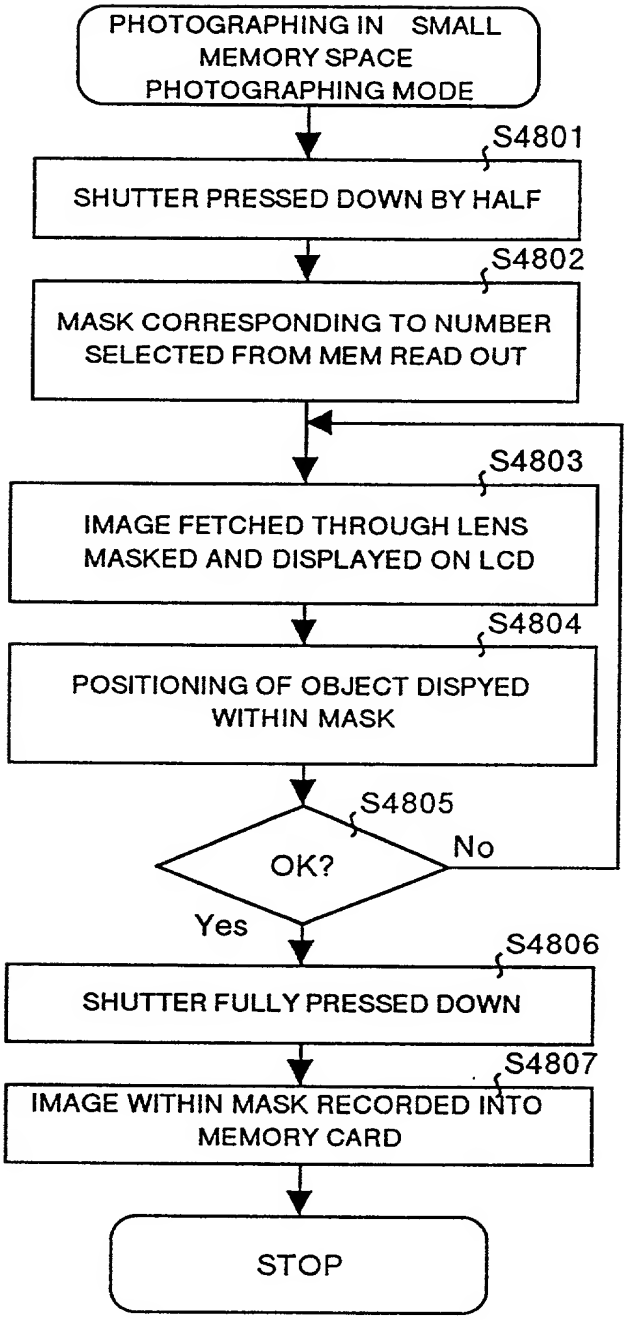

PHOTOGRAPHING IN SMALL MEMORY SPACE PHOTOGRAPHING MODE
S4801
SHUTTER PRESSED DOWN BY HALF
S4802
MASK CORRESPONDING TO NUMBER SELECTED FROM MEM READ OUT
S4803
IMAGE FETCHED THROUGH LENS MASKED AND DISPLAYED ON LCD
S4804
POSITIONING OF OBJECT DISPYED WITHIN MASK
S4805
OK?
No
Yes
S4806
SHUTTER FULLY PRESSED DOWN
S4807
IMAGE WITHIN MASK RECORDED INTO MEMORY CARD
STOP

FIG.49A

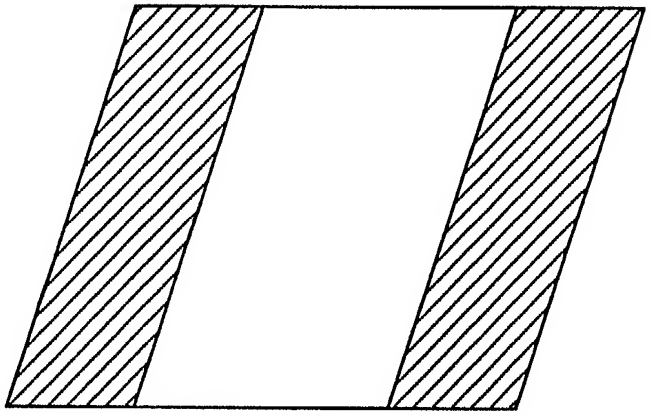


FIG.49B

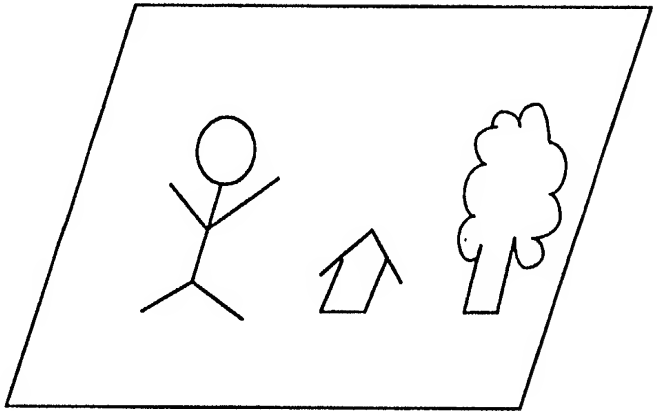


FIG.49C

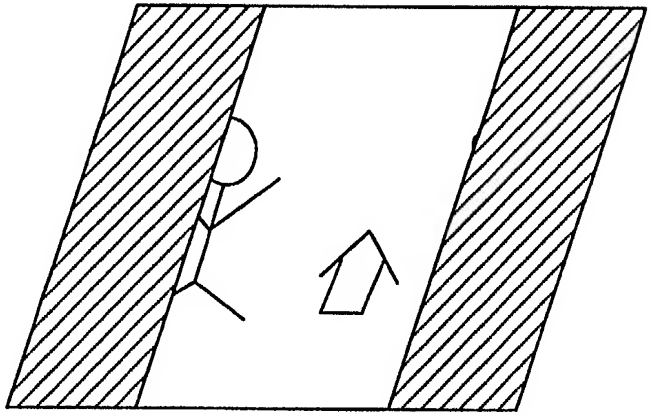


FIG.49D

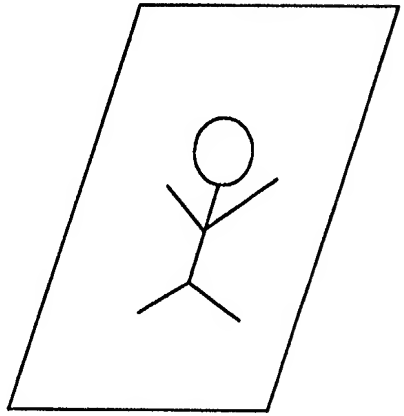


FIG.50

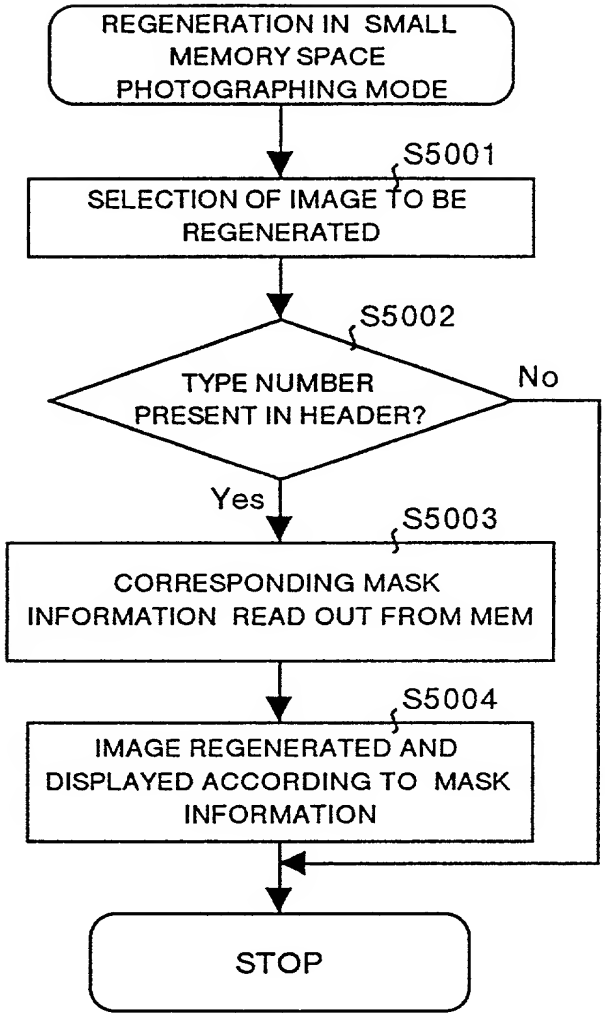

REGENERATION IN SMALL MEMORY SPACE PHOTOGRAPHING MODE
S5001
SELECTION OF IMAGE TO BE REGENERATED
S5002
TYPE NUMBER PRESENT IN HEADER?
No
Yes
S5003
CORRESPONDING MASK INFORMATION READ OUT FROM MEM
S5004
IMAGE REGENERATED AND DISPLAYED ACCORDING TO MASK INFORMATION
STOP

FIG.51

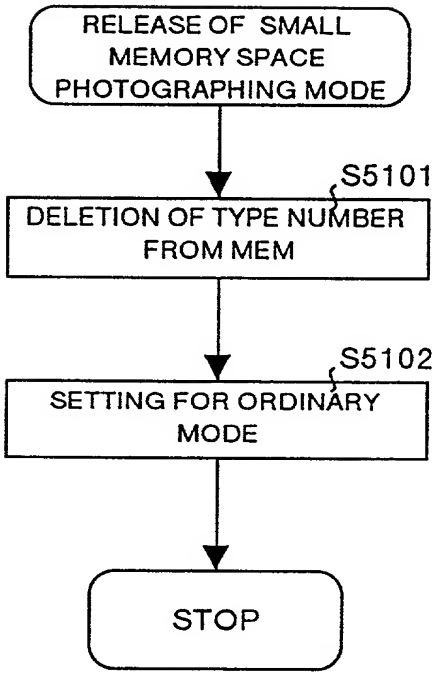

RELEASE OF SMALL MEMORY SPACE PHOTOGRAPHING MODE
S5101
DELETION OF TYPE NUMBER FROM MEM
S5102
SETTING FOR ORDINARY MODE
STOP

FIG.52

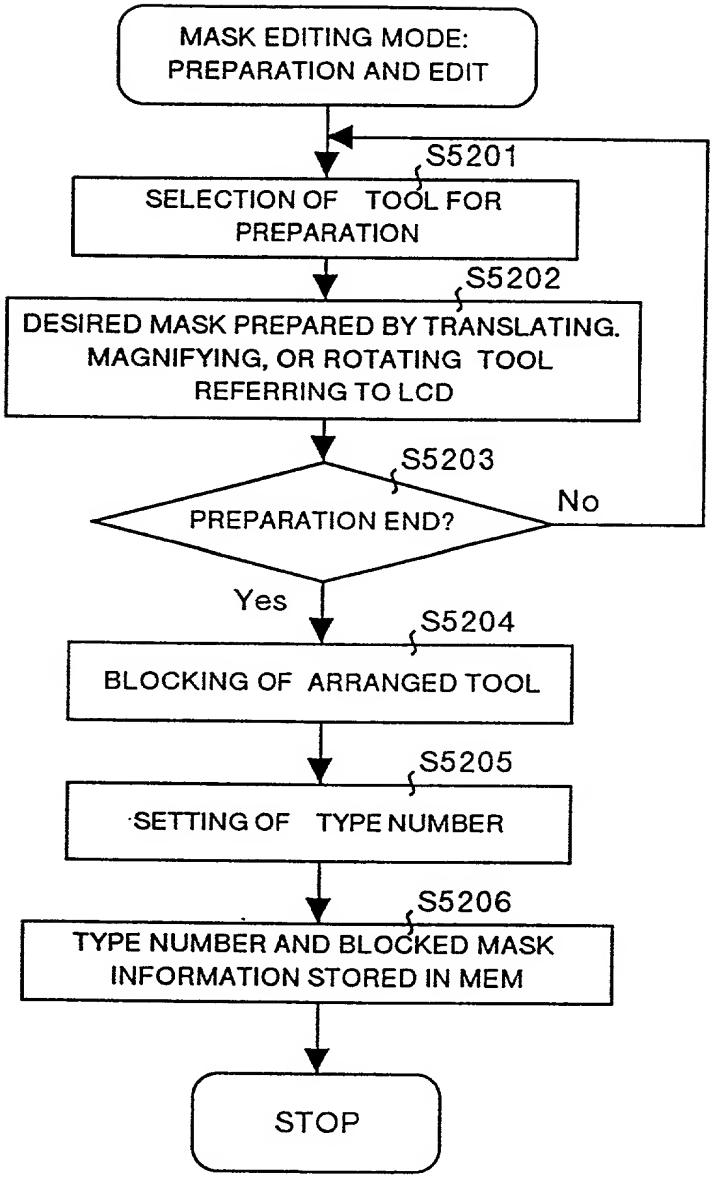

MASK EDITING MODE: PREPARATION AND EDIT
S5201
SELECTION OF TOOL FOR PREPARATION
S5202
DESIRED MASK PREPARED BY TRANSLATING. MAGNIFYING, OR ROTATING TOOL REFERRING TO LCD
S5203
PREPARATION END?
No
Yes
S5204
BLOCKING OF ARRANGED TOOL
S5205
SETTING OF TYPE NUMBER
S5206
TYPE NUMBER AND BLOCKED MASK INFORMATION STORED IN MEM
STOP

FIG.53A FIG.53B FIG.53C FIG.53D

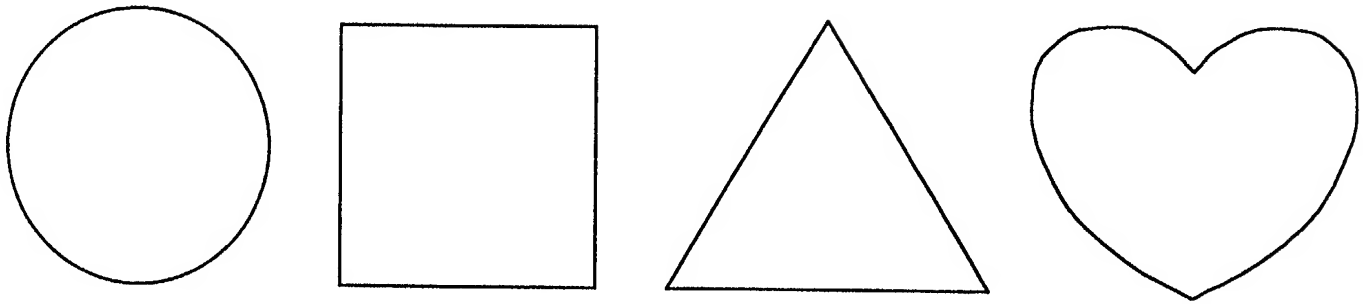


FIG.54A

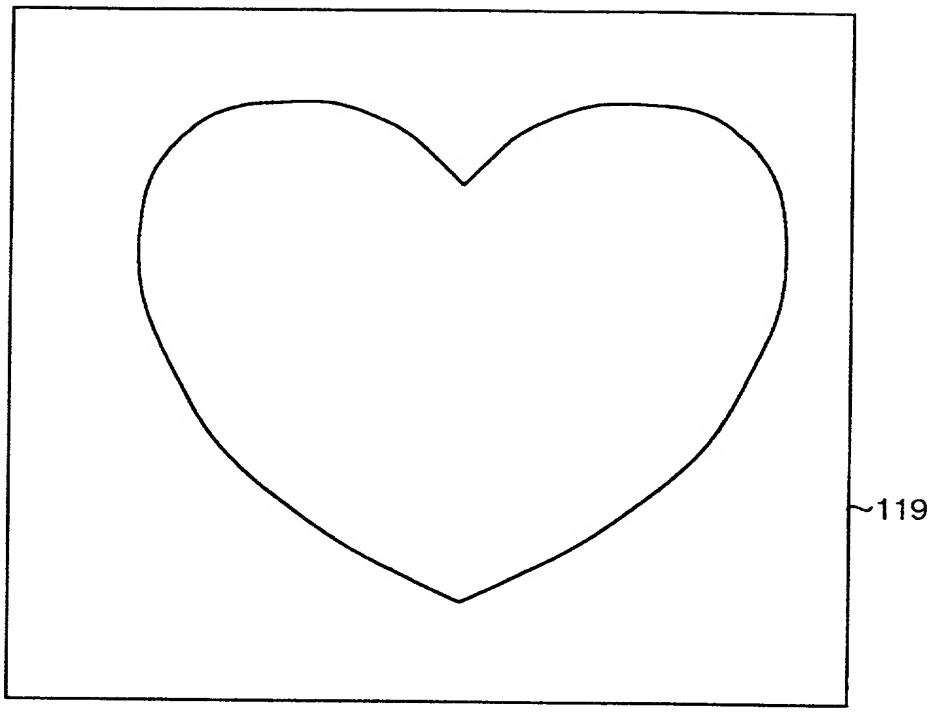


FIG.54B

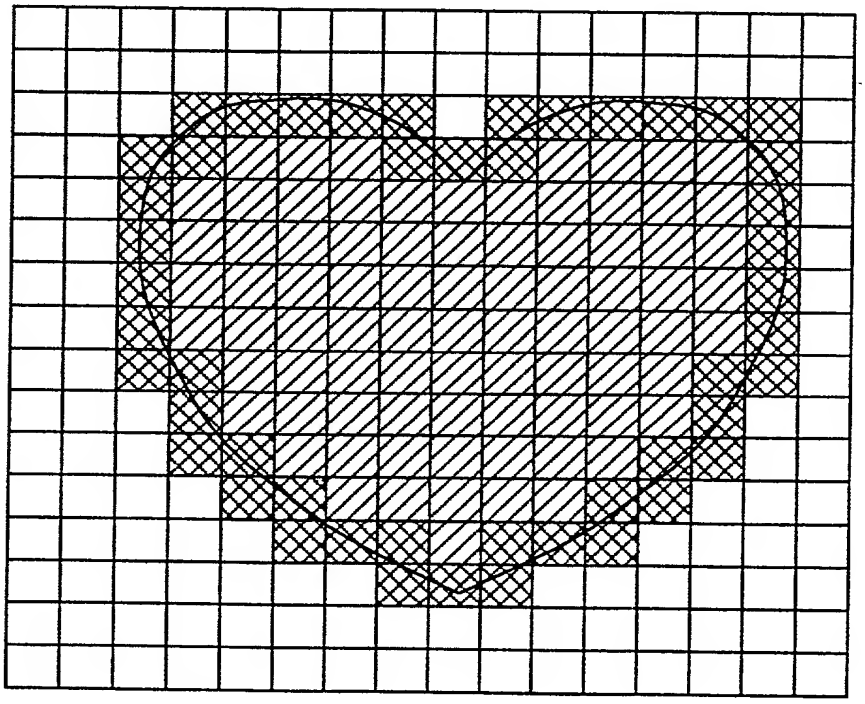


FIG.55

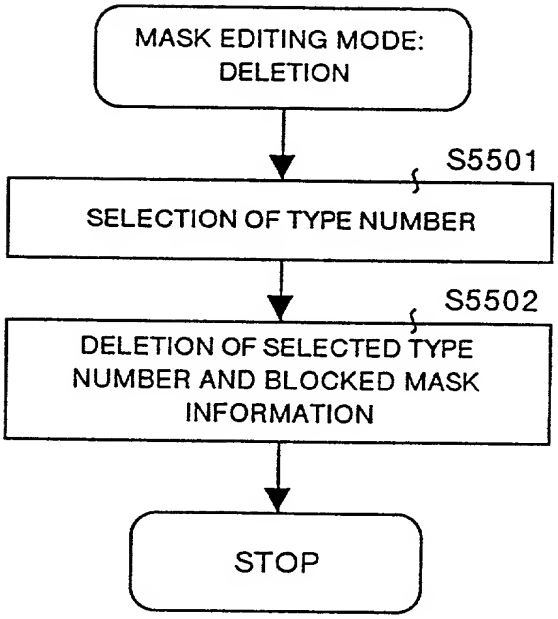

MASK EDITING MODE: DELETION
S5501
SELECTION OF TYPE NUMBER
S5502
DELETION OF SELECTED TYPE NUMBER AND BLOCKED MASK INFORMATION
STOP

FIG.56

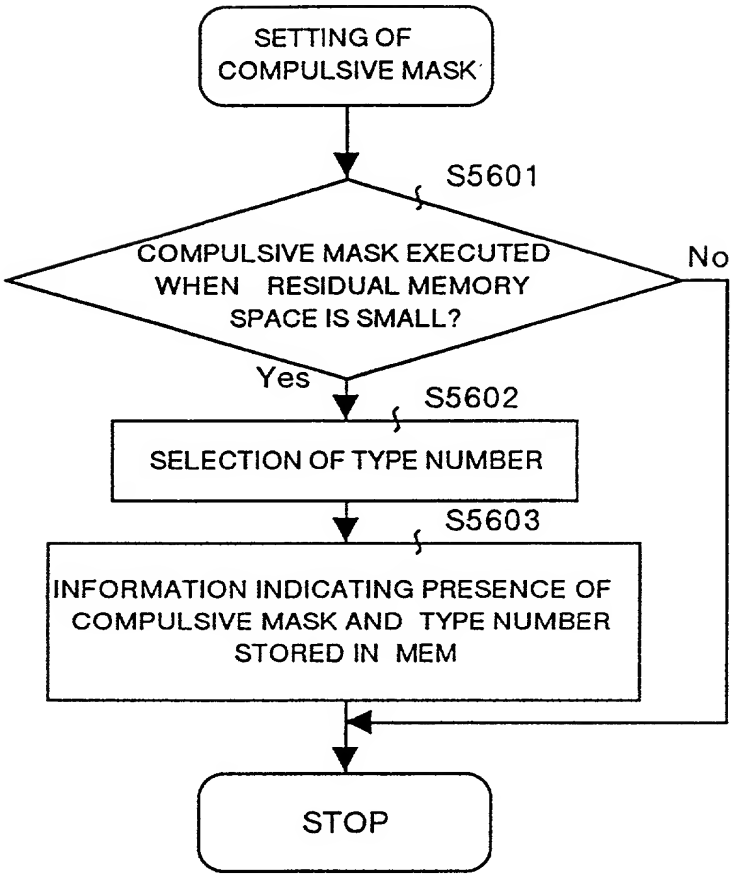

SETTING OF COMPULSIVE MASK
S5601
COMPULSIVE MASK EXECUTED WHEN RESIDUAL MEMORY SPACE IS SMALL?
No
Yes
S5602
SELECTION OF TYPE NUMBER
S5603
INFORMATION INDICATING PRESENCE OF COMPULSIVE MASK AND TYPE NUMBER STORED IN MEM
STOP

FIG.57

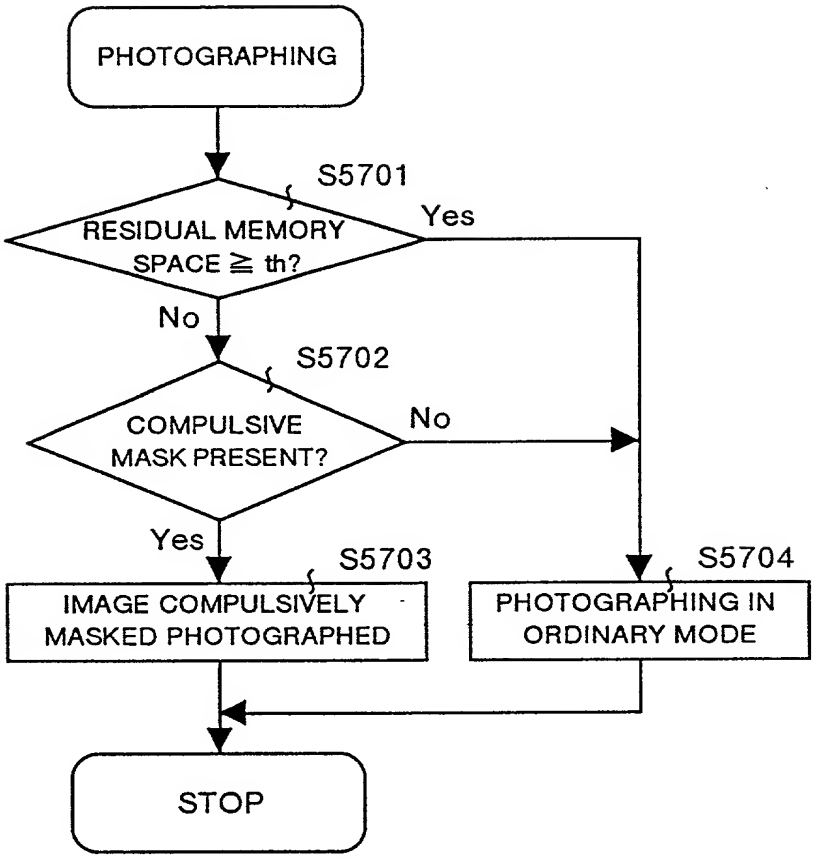

PHOTOGRAPHING
S5701
RESIDUAL MEMORY SPACE ≧ th?
Yes
No
S5702
COMPULSIVE MASK PRESENT?
No
Yes
S5703
IMAGE COMPULSIVELY MASKED PHOTOGRAPHED
S5704
PHOTOGRAPHING IN ORDINARY MODE
STOP

FIG.58

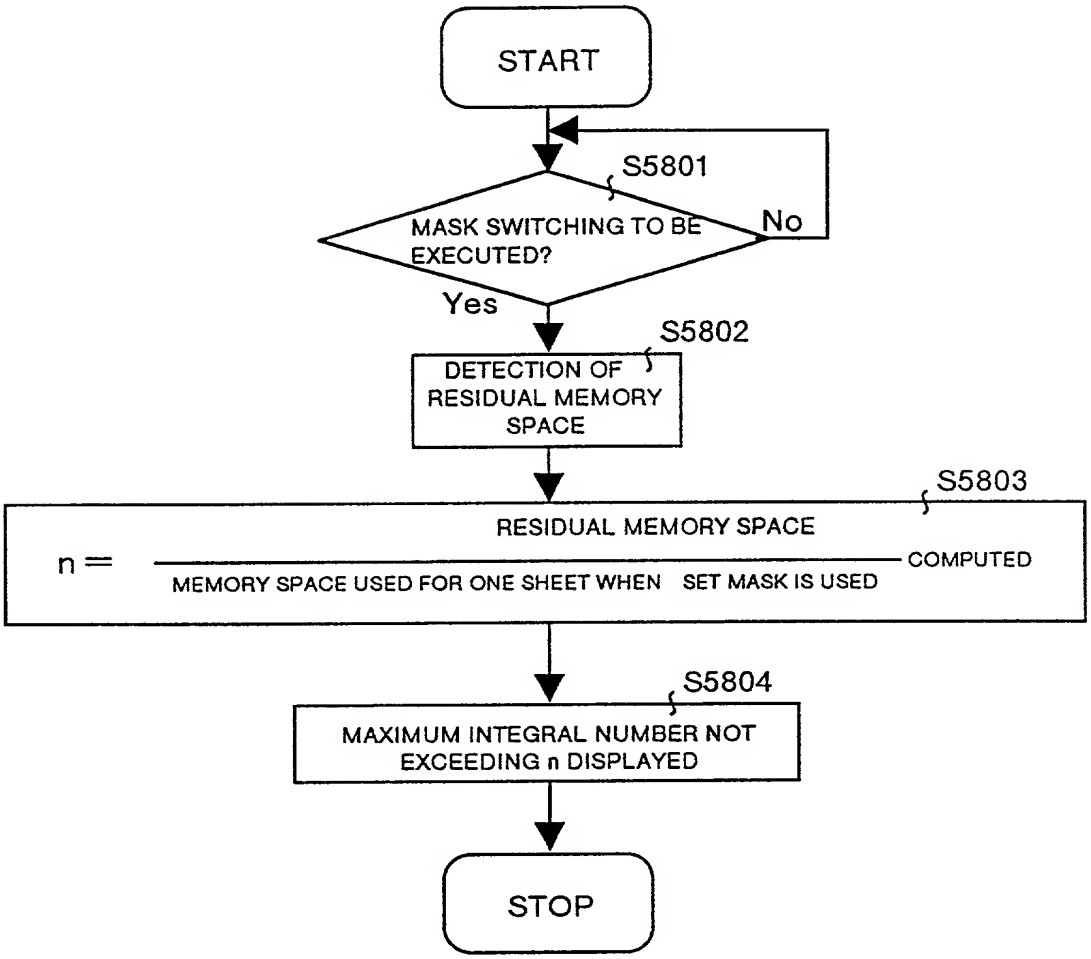

START
S5801
MASK SWITCHING TO BE EXECUTED?
No
Yes
S5802
DETECTION OF RESIDUAL MEMORY SPACE
S5803
n = RESIDUAL MEMORY SPACE / MEMORY SPACE USED FOR ONE SHEET WHEN SET MASK IS USED
COMPUTED
S5804
MAXIMUM INTEGRAL NUMBER NOT EXCEEDING n DISPLAYED
STOP

FIG.59A PRIOR ART

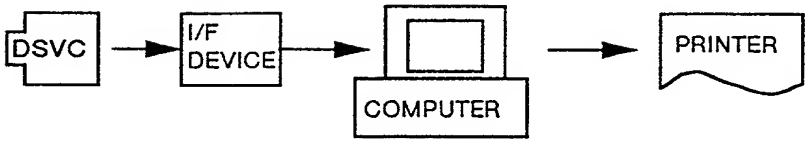


FIG.59B PRIOR ART

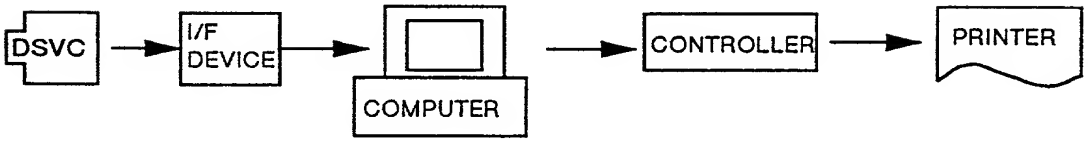


FIG.59C PRIOR ART

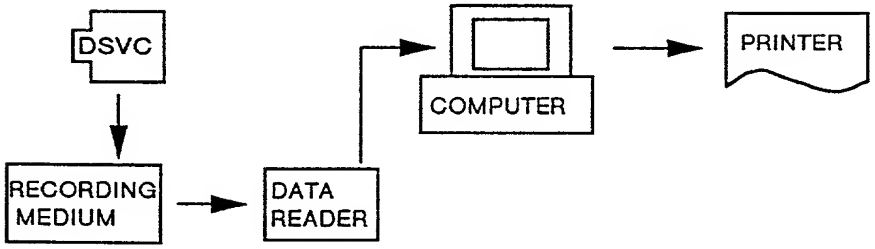


FIG.59D PRIOR ART

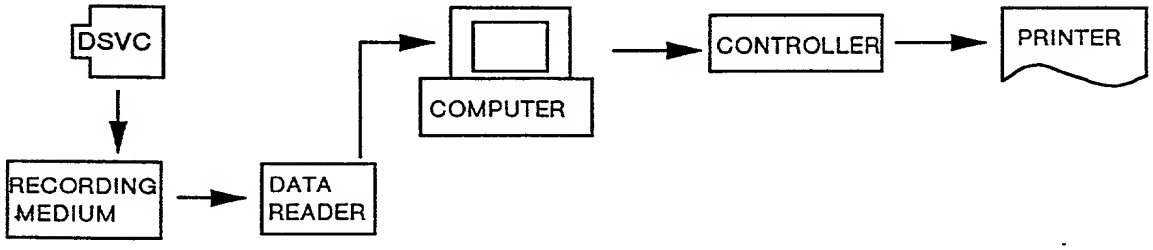


FIG.60A PRIOR ART

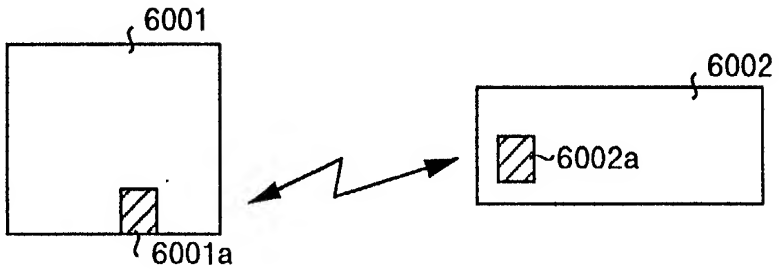


FIG.60B PRIOR ART